

Search result

Query

| | |
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| Search done on | 12.11.2009 (16:41h) |
| Search ID | 10-587,807 |
| Database | Metallic compounds |
| Keyword 1 | MARTENSITE |
| Composition (Dimension: weight-%, Limit for optional components: 0) | C:0-0.01*N:0-0.01*CR:10-14*NI:4-7*SI:0.05-1.0*MN:0.1-2.0*P:0-0.3*S:0-0.01*AL:0.001-0.1*CU:0-4*CO:0-4*MO:0-4*W:0-4*TI:0-0.15*NB:0-0.1*V:0-0.1*ZR:0-0.1*HF:0-0.2*TA:0-0.2*FE:BALANCE |
| Sorted according to | Date of priority descending |

Compositions

Hits

146

| | | |
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| | | |
| 1 | Deutsches Patent- und Markenamt DPMA | 12.11.2009 (16:41h) |
| Publication | EP1717328 A1 | 02.11.2006 |
| Priority | JP2004024687 | 30.01.2004 |
| Application | EP0112200404801614 | |
| Applicant | JFE Steel Corp. | |
| Inventor | Miyata, Yukio; Kimura, Mitsuo; Itakura, N. und Miterfinder | |
| Title | Martensitic stainless steel tube | |
| Info | Bemessungsregel | |
| IPC | C22C038/00 | |
| Composition nr. | 1 | Composite component - |
| Composition | [weight-%]: C : 0-0,01 * N : 0-0,01 * CR : 10-14 * NI : 3-8 * SI : (0)-1 * MN : (0)-2 * P : 0-0,03 * S : 0-0,01 * AL : 0-0,1 * CU : 0-4 * CO : 0-4 * MO : 0-4 * W : 0-4 * TI : 0-0,15 * NB : 0-0,1 * V : 0-0,1 * ZR : 0-0,1 * HF : 0-0,2 * TA : 0-0,2 * CA : 0-0,01 * MG : 0-0,01 * REM : 0-0,01 * B : 0-0,01 * FE : REST | |
| Keywords | (english) | (german) |
| | CORROSION-RESISTING | KORROSIONSBEST |
| | HEAT-TREATMENT | WÄRMEBEHANDLUNG |

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| | MARTENSITE | MARTENSIT |
| | TENSILE-STRENGTH | ZUGFEST |
| | TOUGH | ZÄH |
| | USE | VERWENDUNG |
| | WELDABLE | SCHWEISSBAR |
| | | |
| 2 | <i>Deutsches Patent- und Markenamt DPMA</i> | <i>12.11.2009 (16:41h)</i> |
| Publication | EP1661655 A1 | 31.05.2006 |
| Priority | WOJP200311360 | 05.09.2003 |
| Application | EP0509200303818578 | |
| Applicant | Sumitomo Metal Industries, Ltd. | |
| Inventor | Amaya, Hisashi; Oagawa, Kazuhiro; Kondo, Kunio und Miterf. | |
| Title | Welded structure excellent in resistance to stress corrosion cracking | |
| Info | | |
| IPC | B23K009/00 | |
| Composition nr. | 1 | Composite component - |
| Composition | [weight-%]: C : 0,001-0,05 * SI : 0,05-1 * MN : 0,05-2 * CR : 8-16 * NI : 0,1-9 * AL : 0,001-0,1 * MO : 0-7 + W : 0-7 * CU : 0-3 * TI : 0-0,5 + ZR : 0-0,5 + HF : 0-0,5 + V : 0-0,5 + NB : 0-0,5 * CA : 0-0,01 + MG : 0-0,01 + REM : 0-0,01 * FE : REST | |
| Keywords | (english) | (german) |
| | CORROSION-RESISTING | KORROSIONSBEST |
| | MARTENSITE | MARTENSIT |
| | STRESS-CORROSION-RESIST | SPANNUNGSKORROSIONSBEST |
| | USE | VERWENDUNG |
| | WELDABLE | SCHWEISSBAR |
| | | |
| 3 | <i>Deutsches Patent- und Markenamt DPMA</i> | <i>12.11.2009 (16:41h)</i> |
| Publication | US20060174979 A1 | 10.08.2006 |
| Priority | JP2003277682 | 22.07.2003 |
| Application | US2001200633567606 | |
| Applicant | Kondo, Kunio; Amaya, Hisashi | |
| Inventor | Kondo, Kunio; Amaya, Hisashi | |
| Title | Martensitic stainless steel | |
| Info | | |
| IPC | C22C038/22 | |
| Composition nr. | 1 | Composite component - |
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| Composition | [weight-%]: C : 0,001-0,1 * SI : 0,05-1 * MN : 0,05-2 * P : 0-0,025 * S : 0-0,01 * CR : 11-18 * NI : 1,5-10 * AL : 0,001-0,1 * N : 0-0,1 * O : 0-0,01 * CU : 0-5 * MO : 3,5-7 * W : 0-5 * V : 0-0,5 * NB : 0-0,5 * TI : 0-0,5 * ZR : 0-0,5 * CA : 0-0,05 * MG : 0-0,05 * REM : 0-0,05 * B : 0-0,01 * FE : REST | |
| Keywords | (english) | (german) |
| | CORROSION-RESISTING | KORROSIONSBEST |
| | HEAT-TREATMENT | WÄRMEBEHANDLUNG |
| | HIGH-TEMPER-STRENGTH | WARMFEST |
| | MARTENSITE | MARTENSIT |
| | STRESS-CORROSION-RESIST | SPANNUNGSKORROSIONSBEST |
| | TENSILE-STRENGTH | ZUGFEST |
| | USE | VERWENDUNG |
| | | |
| 4 | Deutsches Patent- und Markenamt DPMA | 12.11.2009 (16:41h) |
| Publication | EP1584699 A1 | 12.10.2005 |
| Priority | JP2002369595 | 20.12.2002 |
| Application | DE1812200303780915 | |
| Applicant | Sumitomo Metal Industries, Ltd. | |
| Inventor | Takabe, Hideki; Ueda, Masakatsu | |
| Title | High-strength martensitic stainless steel with excellent resistances to carbon dioxide gas corrosion and sulfide stress corrosion cracking | |
| Info | Mo>=2,3-0,89.Si+32,2.C | |
| IPC | C22C038/00 | |
| Composition nr. | 1 | Composite component - |
| Composition | [weight-%]: C : 0,005-0,04 * SI : 0-0,5 * MN : 0,1-3 * P : 0-0,04 * S : 0-0,01 * CR : 10-15 * NI : 4-8 * MO : 2,8-5 * AL : 0,01-0,1 * N : 0-0,07 * CU : 0-1 * TI : 0-0,25 * V : 0-0,25 * NB : 0-0,25 * ZR : 0-0,25 * CA : 0-0,005 * MG : 0-0,005 * LA : 0-0,005 * CE : 0-0,005 * FE : REST | |
| Keywords | (english) | (german) |
| | HEAT-TREATMENT | WÄRMEBEHANDLUNG |
| | MARTENSITE | MARTENSIT |
| | PRECIPITATION-HARDENING | AUSSCHIEDUNGSH |
| | STRESS-CORROSION-RESIST | SPANNUNGSKORROSIONSBEST |
| | TENSILE-STRENGTH | ZUGFEST |
| | USE | VERWENDUNG |
| | | |
| 5 | Deutsches Patent- und Markenamt DPMA | 12.11.2009 (16:41h) |
| Publication | JP2004091812 AA | 25.03.2004 |
| Priority | JP2002251543 | 29.08.2002 |
| Application | JP290820022002251543 | |
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|-----------------|---|-----------------------|
| Applicant | JFE Steel K.K. | |
| Inventor | Nakamichi, Jiro; Sato, Kaoru; Fukui, Toshihiko | |
| Title | Hot-rolled martensitic stainless steel strip excellent in manufacturability | |
| Info | Die Informationen stammen teilweise aus einer elektronischen Übersetzung der jp. Schrift | |
| IPC | C22C038/00 | |
| Composition nr. | 1 | Composite component - |
| Composition | {weight-%}: C : 0-0,02 * SI : 0,1-0,3 * MN : 0,1-0,3 * CR : 11-15 * NI : 5-8 * MO : 1,5-3 * AL : 0-0,10 * N : 0-0,020 * P + S : 0-0,33 * FE : REST * TI : 0-0,1 + V : 0-0,1 * CU + W : 0-1 * CA : 0-0,005 + ZR : 0-0,005 + MG : 0-0,005 | |
| Keywords | (english) | (german) |
| | CORROSION-RESISTING | KORROSIONSBEST |
| | MARTENSITE | MARTENSIT |
| | PRODUCTION | HERSTELLUNG |
| | USE | VERWENDUNG |
| | WELDABLE | SCHWEISSBAR |
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| 6 | Deutsches Patent- und Markenamt DPMA | 12.11.2009 (16:41h) |
| Publication | EP1514950 A1 | 16.03.2005 |
| Priority | JP2002178974 | 19.06.2002 |
| Application | EP1806200303733478 | |
| Applicant | JFE Steel Corporation | |
| Inventor | Kimura, Mitsuo; Tamari, Takanori; Toyooka, Takaaki | |
| Title | Stainless steel pipe for oil well and process for producing the same | |
| Info | Bemessungsregeln | |
| IPC | C22C038/00 | |
| Composition nr. | 1 | Composite component - |
| Composition | {weight-%}: C : 0-0,05 * SI : 0-0,5 * MN : 0,2-1,8 * P : 0-0,03 * S : 0-0,005 * CR : 14-18 * NI : 5-8 * MO : 1,5-3,5 * CU : 0,5-3,5 * AL : 0-0,05 * V : 0-0,2 * N : 0,01-0,15 * O : 0-0,006 * NB : 0-0,2 + TI : 0-0,3 * ZR : 0-0,2 + B : 0-0,01 + W : 0-3 * CA : 0-0,01 * FE : REST | |
| Keywords | (english) | (german) |
| | AUSTENITE | AUSTENIT |
| | CORROSION-RESISTING | KORROSIONSBEST |
| | HEAT-TREATMENT | WÄRMEBEHANDLUNG |
| | MARTENSITE | MARTENSIT |
| | PLASTIC | PLASTISCH |
| | PRODUCTION | HERSTELLUNG |
| | TENSILE-STRENGTH | ZUGFEST |
| | USE | VERWENDUNG |
| | WELDABLE | SCHWEISSBAR |

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| 7 | Deutsches Patent- und Markenamt DPMA | 12.11.2009 (16:41h) |
| Publication | JP2003301242 AA | 24.10.2003 |
| Priority | JP2002109552 | 11.04.2002 |
| Application | JP110420022002109552 | |
| Applicant | JFE Steel K.K. | |
| Inventor | Yuga, Masao; Minami, Yusuke; Hayashi, Kenji und Miterfinder | |
| Title | High-Cr-Ni heat-resistant steel and process for manufacturing member for elevated temperature showing excellent creep resistance | |
| Info | | |
| IPC | C22C038/00 | |
| Composition nr. | 1 | Composite component - |
| Composition | [weight-%]: CR : 7-15 * NI : 3-8 * C : 0,001-0,1 * SI : 0,01-0,4 * MN : 0-1,5 * S : 0-0,015 * CU : 0-5 * MO : 0-2,5 * W : 0-5 * AL : 0,003-0,04 * N : 0,005-0,1 * NB : 0-0,1 + V : 0-0,5 + TI : 0-0,2 + B : 0-0,005 * FE : REST | |
| Keywords | (english) | (german) |
| | AUSTENITE | AUSTENIT |
| | CREEP-RESIST/STABILITY | STANDFEST |
| | HEAT-RESISTANT | HITZEBEST |
| | MARTENSITE | MARTENSIT |
| | PRODUCTION | HERSTELLUNG |
| | | |
| 8 | Deutsches Patent- und Markenamt DPMA | 12.11.2009 (16:41h) |
| Publication | JP2003268449 AA | 25.09.2003 |
| Priority | JP2002068375 | 13.03.2002 |
| Application | JP130320022002068375 | |
| Applicant | JFE Steel K.K. | |
| Inventor | Nakamichi, Jiro; Sato, Kaoru; Fukui, Toshihiko | |
| Title | Process for manufacturing martensitic stainless steel strip | |
| Info | | |
| IPC | C22C038/00 | |
| Composition nr. | 1 | Composite component - |
| Composition | [weight-%]: C : 0,006-0,03 * CR : 11-15 * NI : 1-7 * N : 0,006-0,03 * AL : 0-0,06 * CU + MO + CA + TI : (0)-4,44 * MN + SI : 0-2,22 * S + P : 0-0,333 * FE : REST | |
| Keywords | (english) | (german) |
| | CORROSION-RESISTING | KORROSIONSBEST |
| | HEAT-TREATMENT | WÄRMEBEHANDLUNG |
| | MARTENSITE | MARTENSIT |
| | | |

| | PRODUCTION | HERSTELLUNG |
|-----------------|--|----------------------------|
| | | |
| 9 | <i>Deutsches Patent- und Markenamt DPMA</i> | <i>12.11.2009 (16:41h)</i> |
| Publication | JP2003268505 AA | 25.09.2003 |
| Priority | JP2002068374 | 13.03.2002 |
| Application | JP130320022002068374 | |
| Applicant | JFE Steel K.K. | |
| Inventor | Nakamichi, Jiro; Sato, Kaoru; Fukui, Toshihiko | |
| Title | Low yield ratio martensitic stainless steel strip having excellent toughness and weldability, and production method thereof | |
| Info | | |
| IPC | C22C038/00 | |
| Composition nr. | 1 | Composite component - |
| Composition | [weight-%]: C : 0-0,02 * SI : 0,1-0,3 * MN : 0,1-0,3 * CR : 11-15 * NI : 1-5 * AL : 0,04-0,08 * N : 0-0,03 * TI : 0-0,1 * V : 0-0,1 * P + S : 0-0,333 * FE : REST | |
| Keywords | (english) | (german) |
| | CORROSION-RESISTING | KORROSIONSBEST |
| | HEAT-TREATMENT | WÄRMEBEHANDLUNG |
| | MARTENSITE | MARTENSIT |
| | PRODUCTION | HERSTELLUNG |
| | TOUGH | ZÄH |
| | WELDABLE | SCHWEISSBAR |
| | | |
| 10 | <i>Deutsches Patent- und Markenamt DPMA</i> | <i>12.11.2009 (16:41h)</i> |
| Publication | JP2003193203 AA | 09.07.2003 |
| Priority | JP2001396953 | 27.12.2001 |
| Application | JP271220012001396953 | |
| Applicant | Sumitomo Metal Ind. Ltd. | |
| Inventor | Nakaike, Hirotsugu; Takabe, Hideki; Kondo, Kunio | |
| Title | Method of producing martensitic stainless steel tube | |
| Info | | |
| IPC | C22C038/00 | |
| Composition nr. | 1 | Composite component - |
| Composition | [weight-%]: C : 0,01-0,1 * SI : 0,05-1 * MN : 0,05-1 * CR : 9-15 * NI : 0,1-7 * CU : 0-5 * MO : 0,05-5 * AL : 0,0005-0,05 * N : 0-0,1 * FE : REST | |
| Keywords | (english) | (german) |
| | CORROSION-RESISTING | KORROSIONSBEST |
| | HEAT-TREATMENT | WÄRMEBEHANDLUNG |
| | MACHINEABLE | ZERSPANBAR |

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| | MARTENSITE | MARTENSIT |
| | TENSILE-STRENGTH | ZUGFEST |
| | TOUGH | ZÄH |
| | USE | VERWENDUNG |
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| 11 | <i>Deutsches Patent- und Markenamt DPMA</i> | <i>12.11.2009 (16:41h)</i> |
| Publication | EP1323841 A1 | 02.07.2003 |
| Priority | JP2001394433 | 26.12.2001 |
| Application | EP1112200202027642 | |
| Applicant | Kawasaki Steel Corp. | |
| Inventor | Hirasawa, Junichiro; Ujio, Takumi; Furukimi, Osamu | |
| Title | Martensitic stainless steel sheet and method for making the same | |
| Info | | |
| IPC | C22C038/44 | |
| Composition nr. | 1 | Composite component - |
| Composition | [weight-%]: C : 0-0,02 * SI : 0-1 * MN : 0-1,5 * P : 0-0,04 * S : 0-0,01 * AL : 0-0,1 * NI : 1,5-4 * CR : 11-15 * MO : 0,5-2 * N : 0-0,02 * CU : 0-2 + CO : 0-2 * FE : REST * TI : 0-0,2 + NB : 0-0,2 + V : 0-0,2 + ZR : 0-0,2 + TA : 0-0,2 * B : 0-0,005 + CA : 0-0,005 * W : 0-0,1 + MG : 0-0,01 | |
| Keywords | (english) | (german) |
| | CORROSION-RESISTING | KORROSIONSBEST |
| | MARTENSITE | MARTENSIT |
| | PLASTIC | PLASTISCH |
| | PRODUCTION | HERSTELLUNG |
| | TENSILE-STRENGTH | ZUGFEST |
| | TOUGH | ZÄH |
| | | |
| 12 | <i>Deutsches Patent- und Markenamt DPMA</i> | <i>12.11.2009 (16:41h)</i> |
| Publication | WO2003035921 A1 | 01.05.2003 |
| Priority | JP2001322548 | 19.10.2001 |
| Application | WO04102002JP200210394 | |
| Applicant | Sumitomo metal industries Ltd. | |
| Inventor | Yoshizawa, Misuru; Kondo, Kunio; Igarashi, Masaaki und Miterfinder | |
| Title | Martensitic stainless steel and method for manufacturing same | |
| Info | | |
| IPC | C22C038/18 | |
| Composition nr. | 1 | Composite component - |
| Composition | [weight-%]: C : 0,01-0,1 * CR : 9-15 * SI : 0,05-1 * MN : 0,05-1,5 * P : 0-0,03 * S : 0-0,01 * NI : 0,1-7 * AL : 0-0,05 * N : 0-0,1 * CU : 0-4 * MO : 0-3 * TI : 0-0,5 * V : 0-0,5 * NB : 0-0,5 * B : 0- | |

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| | 0,005 * CA : 0-0,005 * MG : 0-0,005 * REM : 0-0,005 * FE : REST | |
| Keywords | (english) | (german) |
| | AUSTENITE | AUSTENIT |
| | CORROSION-RESISTING | KORROSIONSBEST |
| | HEAT-TREATMENT | WÄRMEBEHANDLUNG |
| | MARTENSITE | MARTENSIT |
| | PRODUCTION | HERSTELLUNG |
| | TENSILE-STRENGTH | ZUGFEST |
| | TOUGH | ZÄH |
| | USE | VERWENDUNG |
| | | |
| 13 | Deutsches Patent- und Markenamt DPMA | 12.11.2009 (16:41h) |
| Publication | WO2003033754 A1 | 24.04.2003 |
| Priority | JP2001320372 | 18.10.2001 |
| Application | WO04102002JP200210395 | |
| Applicant | Sumitomo Metal Industries, Ltd. | |
| Inventor | Amaya, Hisashi; Kondo, Kunio; Ueda, Masakatsu und Miterfinder | |
| Title | Martensitic stainless steel | |
| Info | Bedingung gilt: 0,2% <=MO+CU/4<=5% | |
| IPC | C22C038/00 | |
| Composition nr. | 1 | Composite component - |
| Composition | [weight-%]: C : 0,01-0,1 * SI : 0,05-1 * MN : 0,05-1,5 * P : 0-0,03 * S : 0-0,01 * CR : 9-15 * NI : 0,1-4,5 * AL : 0-0,05 * N : 0-0,1 * CU : 0,05-5 + MO : 0,05-5 * TI : 0-0,5 * V : 0-0,5 * NB : 0-0,5 * B : 0-0,005 * CA : 0-0,005 * MG : 0-0,005 * REM : 0-0,005 * FE : REST | |
| Keywords | (english) | (german) |
| | CORROSION-RESISTING | KORROSIONSBEST |
| | HARD | HART |
| | HEAT-TREATMENT | WÄRMEBEHANDLUNG |
| | MARTENSITE | MARTENSIT |
| | PRODUCTION | HERSTELLUNG |
| | TENSILE-STRENGTH | ZUGFEST |
| | USE | VERWENDUNG |
| | | |
| 14 | Deutsches Patent- und Markenamt DPMA | 12.11.2009 (16:41h) |
| Publication | EP1288316 A1 | 05.03.2003 |
| Priority | JP2001259889 | 29.08.2001 |
| Application | EP2208200202018269 | |
| Applicant | Kawasaki Steel Corporation | |
| Inventor | Miyata, Yukio; Kimura, Mitsuo; Toyooka, Takaaki | |
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| Title | Method for making high-strength high-toughness martensitic stainless steel seamless pipe | |
| Info | | |
| IPC | C21D008/10 | |
| Composition nr. | 1 | Composite component - |
| Composition | {weight-%}: C : 0,005-0,3 * SI : 0,1-1 * MN : 0,05-2,00 * P : 0-0,03 * S : 0-0,005 * CR : 10-15 * AL : 0,001-0,05 * N : 0-3,33 * NI : 0-7 * MO : 0-3 * CU : 0-3 * NB : 0-0,2 * V : 0-0,2 * TI : 0-0,3 * ZR : 0-0,2 * B : 0-0,01 * CA : 0-0,01 * REM : 0-0,01 * FE : REST | |
| Keywords | (english) | (german) |
| | CORROSION-RESISTING | KORROSIONSBEST |
| | HEAT-TREATMENT | WÄRMEBEHANDLUNG |
| | MARTENSITE | MARTENSIT |
| | PRODUCTION | HERSTELLUNG |
| | TENSILE-STRENGTH | ZUGFEST |
| | TOUGH | ZÄH |
| | | |
| 15 | Deutsches Patent- und Markenamt DPMA | 12.11.2009 (16:41h) |
| Publication | WO2002101112 A2 | 19.12.2002 |
| Priority | JP2001170857 | 06.06.2001 |
| Application | WO06062002JP200205627 | |
| Applicant | Nippon Steel Corp.; Fujita, Nobuhiro; Azuma, Masafumi; Takahashi, Manabu und Mitanmelder | |
| Inventor | Fujita, Nobuhiro; Azuma, Masafumi; Takahashi, Manabu und Miterfinder | |
| Title | High-strength hot-dip galvanized steel sheet and hot-dip galvanized steel sheet having fatigue resistance, corrosion resistance, ductility and plating adhesion, after severe deformation, and a method of producing the same | |
| Info | | |
| IPC | C23C002/02 | |
| Composition nr. | 1 | Composite component b |
| Composition | Composite material [%]: PLATTIERUNG * KERN Component a [weight-%]: AL : 0,001-4 * FE : (0)-20 * MN : 0-3 * MO : 0-1 * CA + MG + SI + W + ZR + CS + RB + K + AG + NA + CD + CU + NI + CO + LA + TL + ND + Y + IN + BE + CR + PB + HF + TC + TI + GE + TA + V + B : 0-33,33 * ZN : REST Component b [weight-%]: C : 0,0001-0,3 * SI : 0,001-0,1 * MN : 0,01-3 * AL : 0,001-4 * MO : 0,001-1 * P : 0,0001-0,3 * S : 0,0001-0,1 * CR : 0-25 * NI : 0-10 * N : 0-0,333 * CU : 0-5 * CO : 0-5 * W : 0-5 * NB + TI + V + ZR + HF + TA : 0-1 * B : 0-0,1 * REM + CA + MG + CE : 0-1 * FE : REST | |
| Keywords | (english) | (german) |
| | AUSTENITE | AUSTENIT |
| | BAINITE | BAINIT |
| | CLADDING-MATERIAL | PLATTIERW |
| | CORROSION-RESISTING | KORROSIONSBEST |
| | FATIGUE-RESISTING | SCHWINGFEST |

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| | FERRITE | FERRIT |
| | FINE-GRAINED | FEINKÖRNIG |
| | HEAT-TREATMENT | WÄRMEBEHANDLUNG |
| | MARTENSITE | MARTENSIT |
| | PRODUCTION | HERSTELLUNG |
| | SURFACE | OBERFLÄCHE |
| | TENSILE-STRENGTH | ZUGFEST |
| | TOUGH | ZÄH |
| | USE | VERWENDUNG |
| | | |
| 16 | Deutsches Patent- und Markenamt DPMA | 12.11.2009 (16:41h) |
| Publication | WO2002101112 A2 | 19.12.2002 |
| Priority | JP2001170857 | 06.06.2001 |
| Application | WO06062002JP200205627 | |
| Applicant | Nippon Steel Corp.; Fujita, Nobuhiro; Azuma, Masafumi; Takahashi, Manabu und Mitanmelder | |
| Inventor | Fujita, Nobuhiro; Azuma, Masafumi; Takahashi, Manabu und Miterfinder | |
| Title | High-strength hot-dip galvanized steel sheet and hot-dip galvanized steel sheet having fatigue resistance, corrosion resistance, ductility and plating adhesion, after severe deformation, and a method of producing the same | |
| Info | | |
| IPC | C23C002/02 | |
| Composition nr. | 2 | Composite component b |
| Composition | Composite material [%]: PLATTIERUNG * KERN Component a [weight-%]: AL : 0,001-0,5 * MN : 0,001-2 * CA + MG + SI + W + ZR + CS + RB + K + MO + AG + NA + CD + CU + NI + CO + LA + TL + ND + Y + IN + BE + CR + PB + HF + TC + TI + GE + TA + V + B : 0-33,33 * ZN : REST Component b [weight-%]: C : 0,0001-0,3 * SI : 0,01-2,5 * MN : 0,01-3 * AL : 0,001-4 * N + P + S : 0-0,333 * CR : 0-25 * NI : 0-10 * CU : 0-5 * CO : 0-5 * W : 0-5 * B : 0-0,1 * REM + CA + MG + CE : 0-1 * NB + TI + V + ZR + HF + TA : 0-1 * FE : REST | |
| Keywords | (english) | (german) |
| | AUSTENITE | AUSTENIT |
| | BAINITE | BAINIT |
| | CLADDING-MATERIAL | PLATTIERW |
| | CORROSION-RESISTING | KORROSIONSBEST |
| | FATIGUE-RESISTING | SCHWINGFEST |
| | FERRITE | FERRIT |
| | FINE-GRAINED | FEINKÖRNIG |
| | HEAT-TREATMENT | WÄRMEBEHANDLUNG |
| | MARTENSITE | MARTENSIT |
| | PRODUCTION | HERSTELLUNG |
| | SURFACE | OBERFLÄCHE |
| | TENSILE-STRENGTH | ZUGFEST |

| | | |
|-----------------|--|-----------------------|
| | TOUGH | ZÄH |
| | USE | VERWENDUNG |
| | | |
| 17 | Deutsches Patent- und Markenamt DPMA | 12.11.2009 (16:41h) |
| Publication | EP1403391 A1 | 31.03.2004 |
| Priority | JP2001167046 | 01.06.2001 |
| Application | EP3105200202728217 | |
| Applicant | Sumitomo Metal Industries, Ltd. | |
| Inventor | Kondo, Kunio; Kushida, Takahiro; Komizo, Yuchi und Miterfinder | |
| Title | Martensitic stainless steel | |
| Info | | |
| IPC | C22C038/00 | |
| Composition nr. | 1 | Composite component - |
| Composition | [weight-%]: C : 0,01-0,1 * SI : 0-1 * MN : 0-1,5 * P : 0-0,03 * S : 0-0,01 * CR : 9-15 * NI : 0-7 * AL : 0-0,05 * N : 0-0,1 * MO : 0-5 * CU : 0-3 * TI : 0-0,5 * V : 0-0,5 * NB : 0-0,5 * B : 0-0,005 * CA : 0-0,005 * MG : 0-0,005 * REM : 0-0,005 * FE : REST | |
| Keywords | (english) | (german) |
| | CORROSION-RESISTING | KORROSIONSBEST |
| | MARTENSITE | MARTENSIT |
| | PRECIPITATION-HARDENING | AUSSCHIEDUNGSH |
| | TENSILE-STRENGTH | ZUGFEST |
| | TOUGH | ZÄH |
| | USE | VERWENDUNG |
| | | |
| 18 | Deutsches Patent- und Markenamt DPMA | 12.11.2009 (16:41h) |
| Publication | WO2002099150 A1 | 12.12.2002 |
| Priority | JP2001167046 | 01.06.2001 |
| Application | WO31052002JP200205399 | |
| Applicant | SUMITOMO METAL INDUSTRIES LTD. | |
| Inventor | KONDO, KUNIO; KUSHIDA, TAKAHIRO; KOMIZO, YUICHI UND MITERFINDER | |
| Title | MARTENSITIC STAINLESS STEEL | |
| Info | | |
| IPC | C22C03800 | |
| Composition nr. | 1 | Composite component - |
| Composition | [weight-%]: C : 0,01-0,1 * CR : 9-15 * N : 0-0,1 * SI : 0-1 * MN : 0-1,5 * P : 0-0,03 * S : 0-0,01 * NI : 0-7 * AL : 0-0,05 * TI : 0-0,5 * V : 0-0,5 * NB : 0-0,5 * B : 0-0,005 * CA : 0-0,005 * MG : 0-0,005 * FE : REST | |
| Keywords | (english) | (german) |

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| | CORROSION-RESISTING | KORROSIONSBEST |
| | MARTENSITE | MARTENSIT |
| | TENSILE-STRENGTH | ZUGFEST |
| | TOUGH | ZÄH |
| | | |
| 19 | Deutsches Patent- und Markenamt DPMA | 12.11.2009 (16:41h) |
| Publication | JP2002339044 AA | 27.11.2002 |
| Priority | JP2001144832 | 15.05.2001 |
| Application | JP150520012001144832 | |
| Applicant | NKK Corp. | |
| Inventor | Sato, Kaoru; Nakamichi, Jiro; Minami, Yusuke und Miterf. | |
| Title | High strength martensite stainless steel strip and production method therefore | |
| Info | Der Gehalt an N wird auf ungefähr gleich 60 ppm eingestellt | |
| IPC | C22C038/00 | |
| Composition nr. | 1 | Composite component - |
| Composition | [weight-%]: C : 0-0,02 * SI : 0,1-0,3 * MN : 0,1-0,3 * CR : 11-15 * NI : 1-7 * AL : 0-0,06 * N : 0,008-0,03 * S : 0-0,002 * NB + V + TI + CA + ZR + MG + CU + MO : (0)-4,44 * P : 0-0,333 * FE : REST | |
| Keywords | (english) | (german) |
| | CORROSION-RESISTING | KORROSIONSBEST |
| | HEAT-TREATMENT | WÄRMEBEHANDLUNG |
| | MARTENSITE | MARTENSIT |
| | PRODUCTION | HERSTELLUNG |
| | TENSILE-STRENGTH | ZUGFEST |
| | USE | VERWENDUNG |
| | | |
| 20 | Deutsches Patent- und Markenamt DPMA | 12.11.2009 (16:41h) |
| Publication | JP2002317251 AA | 31.10.2002 |
| Priority | JP2001120851 | 19.04.2001 |
| Application | JP190420012001120851 | |
| Applicant | Nisshin Steel Co., Ltd. | |
| Inventor | Tomimura, Hiroki; Isozaki, Seiichi; Hiramatsu, Naoto | |
| Title | High strength martensitic stainless steel for metal gasket having excellent high temperature setting resistance | |
| Info | Bedingung gilt: 580-520C-2Si-16Mn-16Cr-23Ni-26Cu-300N-10Mo ungefähr gleich 125; 750-30Ni-25Mn-18Cu-50C-30N ungefähr gleich 530 | |
| IPC | C22C038/00 | |
| Composition nr. | 1 | Composite component - |
| | [weight-%]: C : 0-0,15 * SI : 0-2 * MN : 0-2 * P : 0-0,06 * S : 0-0,02 * NI : 2-6 * CR : 12-20 * | |

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| Composition | MO : 0-2 * N : 0-0,1 * CU : 0-3 * NB : 0-0,5 * TI : 0-0,5 * AL : 0-0,2 * B : 0-0,015 * REM : 0-0,2 * Y : 0-0,2 * CA : 0-0,1 * MG : 0-0,1 * FE : REST | |
| Keywords | (english) | (german) |
| | CORROSION-RESISTING | KORROSIONSBEST |
| | HEAT-RESISTANT | HITZEBEST |
| | MARTENSITE | MARTENSIT |
| | TENSILE-STRENGTH | ZUGFEST |
| | USE | VERWENDUNG |
| | | |
| 21 | <i>Deutsches Patent- und Markenamt DPMA</i> | <i>12.11.2009 (16:41h)</i> |
| Publication | JP2002241902 AA | 28.08.2002 |
| Priority | JP2001033607 | 09.02.2001 |
| Application | JP090220012001033607 | |
| Applicant | Sumitomo Metal Ind. Ltd. | |
| Inventor | Amaya Takashi; Kondo, Kunio; Nakamura, Keiichi | |
| Title | High strength martensitic stainless steel and production method therefor | |
| Info | | |
| IPC | C22C038/00 | |
| Composition nr. | 1 | Composite component - |
| Composition | [weight-%]: C : 0-0,08 * SI : 0-1 * MN : 0,1-2 * CR : 7-15 * NI : 0,5-7 * NB : 0,005-0,5 * AL : 0,001-0,1 * N : 0,001-0,05 * P : 0-0,04 * S : 0-0,005 * FE : REST | |
| Keywords | (english) | (german) |
| | CORROSION-RESISTING | KORROSIONSBEST |
| | MARTENSITE | MARTENSIT |
| | PRODUCTION | HERSTELLUNG |
| | TENSILE-STRENGTH | ZUGFEST |
| | | |
| 22 | <i>Deutsches Patent- und Markenamt DPMA</i> | <i>12.11.2009 (16:41h)</i> |
| Publication | JP2002226947 AA | 14.08.2002 |
| Priority | JP2001023668 | 31.01.2001 |
| Application | JP310120012001023668 | |
| Applicant | Sumitomo Metal Ind. Ltd. | |
| Inventor | Ogawa, Kazuhiro; Amaya, Takashi | |
| Title | Martensitic stainless steel welded joint having excellent strain aging resistance | |
| Info | | |
| IPC | C22C038/00 | |
| Composition nr. | 1 | Composite component - |
| | [weight-%]: C : 0-0,02 * SI : 0-1 * MN : 0-1,5 * CR : 7-14 * NI : 0,5-9 * TI : 0-0,3 * P : 0-0,03 * | |

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| Composition | S : 0-0,01 * AL : 0-0,1 * N : 0-0,07 * FE : REST | |
| Keywords | (english) | (german) |
| | AUSTENITE | AUSTENIT |
| | CORROSION-RESISTING | KORROSIONSBEST |
| | FILLER-MATERIAL | SCHWEISSZUSATZW |
| | HARD | HART |
| | MARTENSITE | MARTENSIT |
| | WELDABLE | SCHWEISSBAR |
| | | |
| 23 | <i>Deutsches Patent- und Markenamt DPMA</i> | 12.11.2009 (16:41h) |
| Publication | JP2002212684 AA | 31.07.2002 |
| Priority | JP2001014700 | 23.01.2001 |
| Application | JP230120012001014700 | |
| Applicant | Sumitomo Metal Ind. Ltd. | |
| Inventor | Kondo, Kunio; Amaya, Takashi | |
| Title | Martensitic stainless steel having high temperature strength | |
| Info | | |
| IPC | C22C038/00 | |
| Composition nr. | 1 | Composite component - |
| Composition | [weight-%]: C : 0,001-0,04 * SI : 0,05-1 * MN : 0,05-1,5 * P : 0-0,03 * S : 0-0,01 * CR : 10-14 * NI : 1,5-8 * AL : 0,0005-0,05 * N : 0,001-0,07 * MO + CU : 0-0,555 * TI + V + NB + ZR : 0-0,222 * CA + MG + REM + B : 0-0,0222 * FE : REST | |
| Keywords | (english) | (german) |
| | AUSTENITE | AUSTENIT |
| | CORROSION-RESISTING | KORROSIONSBEST |
| | HEAT-TREATMENT | WÄRMEBEHANDLUNG |
| | HIGH-TEMPER-STRENGTH | WARMFEST |
| | MARTENSITE | MARTENSIT |
| | | |
| 24 | <i>Deutsches Patent- und Markenamt DPMA</i> | 12.11.2009 (16:41h) |
| Publication | JP2002206147 AA | 26.07.2002 |
| Priority | JP2001000970 | 09.01.2001 |
| Application | JP090120012001000970 | |
| Applicant | Hitachi Metals Ltd. | |
| Inventor | Fujita, Etsuo; Uehara, Toshihiro | |
| Title | Precipitation hardening martensitic stainless steel having excellent cold workability and high fatigue strength and production method therefor | |
| Info | C*N<0,1*MO+1/2W:0-5 | |
| IPC | C22C038/00 | |
| | | |

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| Composition nr. | 1 | Composite component - |
| Composition | [weight-%]: C : 0-0,08 * N : 0-0,08 * SI : 1-4 * MN : 0-5 * NI : 3-14 * CR : 3-14 * MO + W : 0,5-5 * CU : 0-5 * AL : 0-0,3 * O : 0-0,005 * FE : REST | |
| Keywords | (english) | (german) |
| | CORROSION-RESISTING | KORROSIONSBEST |
| | FATIGUE-RESISTING | SCHWINGFEST |
| | MARTENSITE | MARTENSIT |
| | PLASTIC | PLASTISCH |
| | PRECIPITATION-HARDENING | AUSSCHIEDUNGSH |
| | PRODUCTION | HERSTELLUNG |
| | | |
| 25 | Deutsches Patent- und Markenamt DPMA | 12.11.2009 (16:41h) |
| Publication | EP1215298 A | 19.06.2002 |
| Priority | JP368534 | 04.12.2000 |
| Application | EP3108200101121028 | |
| Applicant | NISSHIN STEEL CO., LTD. | |
| Inventor | HIRAMATSU, NAOTO/ TOMIMURA, KOUKI/ FUJIMOTO, HIROSHI UND MITERFINDER | |
| Title | A HIGH-STRENGTH AUSTENITIC STAINLESS STEEL STRIP EXCELLENT IN FLATNESS OF SHAPE AND ITS MANUFACTURING METHOD | |
| Info | | |
| IPC | C22C03842 | |
| Composition nr. | 1 | Composite component - |
| Composition | [weight-%]: C : 0-0,2 * SI : 0-4 * MN : 0-5 * NI : 4-12 * CR : 12-20 * MO : 0-5 * N : 0-0,15 * FE : REST * CU : 0-3 + TI : 0-0,5 + NB : 0-0,5 + AL : 0-0,2 + B : 0-0,015 + REM : 0-0,2 + Y : 0-0,2 + CA : 0-0,1 + MG : 0-0,1 | |
| Keywords | (english) | (german) |
| | AUSTENITE | AUSTENIT |
| | CORROSION-RESISTING | KORROSIONSBEST |
| | HARD | HART |
| | HEAT-TREATMENT | WÄRMEBEHANDLUNG |
| | MARTENSITE | MARTENSIT |
| | PLASTIC | PLASTISCH |
| | PRODUCTION | HERSTELLUNG |
| | TENSILE-STRENGTH | ZUGFEST |
| | | |
| 26 | Deutsches Patent- und Markenamt DPMA | 12.11.2009 (16:41h) |
| Publication | JP2002129291 AA | 09.05.2002 |
| Priority | JP2000329984 | 30.10.2000 |
| Application | JP301020002000329984 | |
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| Applicant | Nippon Steel Corp. | |
| Inventor | Sakamoto, Toshiharu | |
| Title | Martensitic stainless steel welding structural body having excellent fire resistance | |
| Info | BEMESSUNGSREGELN | |
| IPC | C22C038/00 | |
| Composition nr. | 1 | Composite component - |
| Composition | [weight-%]: C : 0,005-0,1 * SI : 0-0,5 * MN : 0-1,5 * P : 0-0,03 * S : 0-0,005 * CR : 10-15 * NI : 0,5-6 * MO : 0,3-3 * N : 0-0,03 * AL : 0-0,15 * TI : 0,003-0,05 * FE : REST | |
| Keywords | (english) | (german) |
| | HEAT-RESISTANT | HITZEBEST |
| | MARTENSITE | MARTENSIT |
| | USE | VERWENDUNG |
| | WELDABLE | SCHWEISSBAR |
| | | |
| 27 | Deutsches Patent- und Markenamt DPMA | 12.11.2009 (16:41h) |
| Publication | JP2002105602 AA | 10.04.2002 |
| Priority | JP2000305154 | 04.10.2000 |
| Application | JP041020002000305154 | |
| Applicant | NKK CORP. | |
| Inventor | NAKAMICHI, JIRO; SATO, KAORU; MINAMI, YUSUKE UND MITERFINDER | |
| Title | MARTENSITIC STAINLESS STEEL | |
| Info | AL.N <=6.10-4 | |
| IPC | C22C03800 | |
| Composition nr. | 1 | Composite component - |
| Composition | [weight-%]: C : 0-0,02 * SI : 0,1-0,3 * MN : 0,1-0,3 * CR : 11-15 * NI : 1-5 * AL : 0-0,06 * N : 0-0,02 * TI + V + CA + ZR + MG : 0-0,222 * FE : REST | |
| Keywords | (english) | (german) |
| | CORROSION-RESISTING | KORROSIONSBEST |
| | MARTENSITE | MARTENSIT |
| | WELDABLE | SCHWEISSBAR |
| | | |
| 28 | Deutsches Patent- und Markenamt DPMA | 12.11.2009 (16:41h) |
| Publication | JP2002105603 AA | 10.04.2002 |
| Priority | JP2000305155 | 04.10.2000 |
| Application | JP041020002000305155 | |
| Applicant | NKK CORP. | |
| Inventor | NAKAMICHI, JIRO; SATO, KAORU; MINAMI, YUSUKE UND MITERFINDER | |
| Title | MARTENSITIC STAINLESS STEEL | |

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| Info | | |
| IPC | C22C03800 | |
| Composition nr. | 1 | Composite component - |
| Composition | [weight-%]: C : 0-0,02 * SI : 0,1-0,3 * MN : 0,1-0,3 * CR : 11-15 * NI : 5-8 * MO : 1,5-3 * AL : 0-0,06 * N : 0-0,02 * TI + V + CU + W + CA + ZR + MG : 0-0,33 * FE : REST | |
| Keywords | (english) | (german) |
| | CORROSION-RESISTING | KORROSIONSBEST |
| | MARTENSITE | MARTENSIT |
| | STRESS-CORROSION-RESIST | SPANNUNGSKORROSIONSBEST |
| | WELDABLE | SCHWEISSBAR |
| | | |
| 29 | Deutsches Patent- und Markenamt DPMA | 12.11.2009 (16:41h) |
| Publication | JP2002060910 AA | 28.02.2002 |
| Priority | JP2000244148 | 11.08.2000 |
| Application | JP110820002000244148 | |
| Applicant | SUMITOMO METAL IND LTD. | |
| Inventor | KUSHIDA, TAKAHIRO; OGAWA, KAZUHIRO; HAMADA, MASAHIKO UND MITERFINDER | |
| Title | HIGH CR WELDED STEEL PIPE | |
| Info | -1 <= CR+MO-1,8.NI <= 13-220.O; CR+MO+1,8.NI:25-30; SCHWEISSGUT | |
| IPC | C22C03800 | |
| Composition nr. | 1 | Composite component - |
| Composition | [weight-%]: C : 0-0,05 * SI : 0,05-1 * MN : 0,05-2 * P : 0-0,025 * S : 0-0,01 * CR : 11-18 * NI : 5-10 * MO : 1,5-4 * AL : 0,001-0,1 * N : 0-0,05 * TI : 0,002-0,03 * O : 0-0,065 * FE : REST | |
| Keywords | (english) | (german) |
| | AUSTENITE | AUSTENIT |
| | CORROSION-RESISTING | KORROSIONSBEST |
| | MARTENSITE | MARTENSIT |
| | TENSILE-STRENGTH | ZUGFEST |
| | USE | VERWENDUNG |
| | WELDABLE | SCHWEISSBAR |
| | | |
| 30 | Deutsches Patent- und Markenamt DPMA | 12.11.2009 (16:41h) |
| Publication | JP2002053913 AA | 19.02.2002 |
| Priority | JP2000235820 | 03.08.2000 |
| Application | JP030820002000235820 | |
| Applicant | NKK CORP. | |
| Inventor | SHINPO, YUKIO | |
| Title | METHOD FOR PRODUCING MARTENSITIC STAINLESS STEEL STRIP | |
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| Info | C+N < 0,04 | |
| IPC | C21D00946 | |
| Composition nr. | 1 | Composite component - |
| Composition | [weight-%]: C : 0,008-0,03 * SI : 0,1-0,3 * MN : 0,1-0,3 * CR : 11-15 * NI : 1-7 * AL : 0,05-0,09 * TI : 0,005-0,02 * N : 0,008-0,03 * FE : REST | |
| Keywords | (english) | (german) |
| | CORROSION-RESISTING | KORROSIONSBEST |
| | HEAT-TREATMENT | WÄRMEBEHANDLUNG |
| | MARTENSITE | MARTENSIT |
| | TOUGH | ZÄH |
| | USE | VERWENDUNG |
| | | |
| 31 | Deutsches Patent- und Markenamt DPMA | 12.11.2009 (16:41h) |
| Publication | JP2002053937 AA | 19.02.2002 |
| Priority | JP2000235819 | 03.08.2000 |
| Application | JP030820002000235819 | |
| Applicant | NKK CORP. | |
| Inventor | SHINPO, YUKIO; NAKAMICHI, JIRO; SATO, KAORU | |
| Title | MARTENSITIC STAINLESS STEEL | |
| Info | | |
| IPC | C22C03800 | |
| Composition nr. | 1 | Composite component - |
| Composition | [weight-%]: C : 0,006-0,03 * N : 0,006-0,03 * CR : 11-15 * NI : 1-7 * SI : 0,1-0,3 * MN : 0,1-0,3 * AL : 0,02-0,06 * FE : REST | |
| Keywords | (english) | (german) |
| | CORROSION-RESISTING | KORROSIONSBEST |
| | MARTENSITE | MARTENSIT |
| | TENSILE-STRENGTH | ZUGFEST |
| | | |
| 32 | Deutsches Patent- und Markenamt DPMA | 12.11.2009 (16:41h) |
| Publication | JP2002030336 AA | 31.01.2002 |
| Priority | JP2000213101 | 13.07.2000 |
| Application | JP130720002000213101 | |
| Applicant | NKK CORP. | |
| Inventor | SHINPO, YUKIO | |
| Title | METHOD FOR PRODUCING MARTENSITIC STAINLESS STEEL | |

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| Info | C*N < 0,04 | |
| IPC | C21D00802 | |
| Composition nr. | 1 | Composite component - |
| Composition | [weight-%]: C : 0,008-0,03 * N : 0,008-0,03 * SI : 0,1-0,3 * MN : 0,1-0,3 * CR : 11-15 * NI : 1-7 * AL : 0,05-0,09 * TI : 0,005-0,02 * FE : REST | |
| Keywords | (english) | (german) |
| | CORROSION-RESISTING | KORROSIONSBEST |
| | HEAT-TREATMENT | WÄRMEBEHANDLUNG |
| | MARTENSITE | MARTENSIT |
| | PRODUCTION | HERSTELLUNG |
| | WELDABLE | SCHWEISSBAR |
| | | |
| 33 | Deutsches Patent- und Markenamt DPMA | 12.11.2009 (16:41h) |
| Publication | JP2002004009 AA | 09.01.2002 |
| Priority | JP2000182934 | 19.06.2000 |
| Application | JP190620002000182934 | |
| Applicant | KAWASAKI STEEL CORP. | |
| Inventor | KIMURA, MITSUO ; MIYATA, YUKIO ; TOYOOKA, TAKAAKI UND MITERFINDER | |
| Title | HIGH STRENGTH MARTENSITIC STAINLESS STEEL TUBE FOR OIL WELL AND ITS PRODUCTION METHOD | |
| Info | | |
| IPC | C22C03800 | |
| Composition nr. | 1 | Composite component - |
| Composition | [weight-%]: C : 0-0,05 * SI : 0-0,5 * MN : 0,3-1,5 * P : 0-0,03 * S : 0-0,005 * CR : 11-17 * NI : 2-7 * MO : 0-3 * AL : 0-0,05 * V : 0-0,2 * N : 0-0,15 * O : 0-0,005 * FE : REST | |
| Keywords | (english) | (german) |
| | AUSTENITE | AUSTENIT |
| | CORROSION-RESISTING | KORROSIONSBEST |
| | MARTENSITE | MARTENSIT |
| | PRODUCTION | HERSTELLUNG |
| | TENSILE-STRENGTH | ZUGFEST |
| | TOUGH | ZÄH |
| | | |
| 34 | Deutsches Patent- und Markenamt DPMA | 12.11.2009 (16:41h) |
| Publication | JP2001303206 AA | 31.10.2001 |
| Priority | JP2000125859 | 26.04.2000 |
| Application | JP260420002000125859 | |
| | | |

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| Applicant | SUMITOMO METAL IND LTD. | |
| Inventor | TAKABE, HIDEKI; NAKAMURA, KEIICHI | |
| Title | STAINLESS STEEL FOR COILED TUBING | |
| Info | MO+1/2W:0,2-3 | |
| IPC | C22C03800 | |
| Composition nr. | 1 | Composite component - |
| Composition | [weight-%]: C : 0,001-0,04 * SI : 0-1 * MN : 0,1-3 * P : 0-0,04 * S : 0-0,005 * CR : 9-15 * NI : 0,7-8 * AL : 0,001-0,2 * N : 0-0,05 * NB : 0-0,1 + V : 0-0,1 + TI : 0-0,1 + ZR : 0-0,1 * MO + W : 0,2-3 * CA : 0-0,05 + MG : 0-0,05 + LA : 0-0,05 + CE : 0-0,05 * FE : REST | |
| Keywords | (english) | (german) |
| | AUSTENITE | AUSTENIT |
| | CORROSION-RESISTING | KORROSIONSBEST |
| | FATIGUE-RESISTING | SCHWINGFEST |
| | MARTENSITE | MARTENSIT |
| | STRESS-CORROSION-RESIST | SPANNUNGSKORROSIONSBEST |
| | | |
| 35 | Deutsches Patent- und Markenamt DPMA | 12.11.2009 (16:41h) |
| Publication | JP2001279392 AA | 10.10.2001 |
| Priority | JP2000093662 | 30.03.2000 |
| Application | JP300320002000093662 | |
| Applicant | SUMITOMO METAL IND LTD. | |
| Inventor | KONDO, KUNIO; OGAWA, KAZUHIRO; HAMADA, MASAHIKO UND MITERFINDER | |
| Title | MARTENSITIC STAINLESS STEEL AND ITS PRODUCTION METHOD | |
| Info | BEMESSUNGSREGELN | |
| IPC | C22C03800 | |
| Composition nr. | 1 | Composite component - |
| Composition | [weight-%]: C : 0-0,03 * SI : 0,05-1 * MN : 0,05-2 * P : 0-0,025 * S : 0-0,01 * N : 0-0,02 * O : 0-0,01 * TI : 0-0,05 * AL : 0,001-0,1 * CR : 12-20 * NI : 3-6 * FE : REST | |
| Keywords | (english) | (german) |
| | CORROSION-RESISTING | KORROSIONSBEST |
| | MARTENSITE | MARTENSIT |
| | TENSILE-STRENGTH | ZUGFEST |
| | USE | VERWENDUNG |
| | | |
| 36 | Deutsches Patent- und Markenamt DPMA | 12.11.2009 (16:41h) |
| Publication | JP2001234290 AA | 28.08.2001 |
| | JP2000046941 | 24.02.2000 |

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| Priority | | |
| Application | JP240220002000046941 | |
| Applicant | NISSHIN STEEL CO., LTD. | |
| Inventor | FUJIMOTO, NOBUKAZU; IGAWA, TAKASHI; HIRAMATSU, NAOTO | |
| Title | HIGH STRENGTH STAINLESS STEEL SHEET EXCELLENT IN BENDABILITY | |
| Info | | |
| IPC | C22C03800 | |
| Composition nr. | 1 | Composite component - |
| Composition | [weight-%]: C : 0,01-0,2 * CR : 10-20 * SI : 0-2,22 * MN : 0,1-4 + NI : 0,1-4 * N + MO + V + CU + AL + NB : 0-0,33 * FE : REST | |
| Keywords | (english) | (german) |
| | CORROSION-RESISTING | KORROSIONSBEST |
| | FERRITE | FERRIT |
| | MARTENSITE | MARTENSIT |
| | TENSILE-STRENGTH | ZUGFEST |
| | TOUGH | ZÄH |
| | | |
| 37 | Deutsches Patent- und Markenamt DPMA | 12.11.2009 (16:41h) |
| Publication | JP01179485 A | 03.07.2001 |
| Priority | JP370129 | 27.12.1999 |
| Application | JP2712199911-370129 | |
| Applicant | SUMITOMO METAL IND LTD | |
| Inventor | OMURA, TOMOHIKO / HAMADA, MASAHICO / OGAWA, KAZUHIRO UND MITERFINDER | |
| Title | MARTENSITIC WELDED STAINLESS STEEL PIPE AND PRODUCING METHOD THEREFOR | |
| Info | ANGABEN Z.T. NICHT IM ABSTRACT | |
| IPC | B23K03530 | |
| Composition nr. | 1 | Composite component - |
| Composition | [weight-%]: C : 0-0,1 * SI : 0-1 * MN : 0-3 * P : 0-0,04 * S : 0-0,01 * V : 0-0,1 * N : 0-0,1 * O : 0-0,06 * NI : 2-10 * CR : 12-20 * MO : 0-5 * TI : 0-0,2 * AL : 0-0,1 * NB : 0-0,1 * CU : 0-3 * W : 0-6 * FE : REST | |
| Keywords | (english) | (german) |
| | AUSTENITE | AUSTENIT |
| | CORROSION-RESISTING | KORROSIONSBEST |
| | FERRITE | FERRIT |
| | MARTENSITE | MARTENSIT |
| | STRESS-CORROSION-RESIST | SPANNUNGSKORROSIONSBEST |
| | TENSILE-STRENGTH | ZUGFEST |
| | TOUGH | ZÄH |

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| | USE | VERWENDUNG |
| | WELDABLE | SCHWEISSBAR |
| | | |
| 38 | <i>Deutsches Patent- und Markenamt DPMA</i> | <i>12.11.2009 (16:41h)</i> |
| Publication | US01038001 A | 08.11.2001 |
| Priority | JP359822 | 17.12.1999 |
| Application | US18122000737578 | |
| Applicant | MORIKAGE, YASUSHI/ KUBO, TAKAHIRO/ YASUDA, KOICH UND MITERFINDER | |
| Inventor | MORIKAGE, YASUSHI/ KUBO, TAKAHIRO/ YASUDA, KOICH UND MITANMELDER | |
| Title | WELDING MATERIAL AND A METHOD OF PRODUCING WELDED JOINT | |
| Info | | |
| IPC | B23K03534 | |
| Composition nr. | 1 | Composite component - |
| Composition | [weight-%]: C : 0-0,2 * SI : 0-1 * MN : 0-2,5 * P : 0-0,15 * S : 0-0,14 * AL : 0-0,033 * CR : 3-13 * NI : 3-13 * MO : 0-4 * NB : 0-4 * V : 0-0,033 * TI : 0-0,008 * H : 0-0,0004 * FE : REST | |
| Keywords | (english) | (german) |
| | FATIGUE-RESISTING | SCHWINGFEST |
| | FILLER-MATERIAL | SCHWEISSZUSATZW |
| | MARTENSITE | MARTENSIT |
| | TENSILE-STRENGTH | ZUGFEST |
| | USE | VERWENDUNG |
| | WELDABLE | SCHWEISSBAR |
| | | |
| 39 | <i>Deutsches Patent- und Markenamt DPMA</i> | <i>12.11.2009 (16:41h)</i> |
| Publication | JP2001140040 AA | 22.05.2001 |
| Priority | JP11-323522 | 15.11.1999 |
| Application | JP1511199911-323522 | |
| Applicant | SUMITOMO METAL IND LTD. | |
| Inventor | OMURA, TOMOHIKO; KUSHIDA, TAKAHIRO | |
| Title | LOW CARBON FERRITE-MARTENSITE DUPLEX STAINLESS WELDED STEEL PIPE EXCELLENT IN SULFIDE STRESS CRACKING RESISTANCE | |
| Info | | |
| IPC | C22C03800 | |
| Composition nr. | 1 | Composite component - |
| Composition | [weight-%]: C : 0-0,02 * P : 0-0,04 * S : 0-0,01 * NI : 2-8 * CR : 11,5-15 * MO : 1,5-4 * SI : 0-1 * MN : 0-1 * AL : 0-0,1 * CU : 0-1,2 * TI : 0-0,2 * N : 0-0,02 * V : 0-0,1 * FE : REST | |
| Keywords | (english) | (german) |

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| | CORROSION-RESISTING | KORROSIONSBEST |
| | FERRITE | FERRIT |
| | MARTENSITE | MARTENSIT |
| | STRESS-CORROSION-RESIST | SPANNUNGSKORROSIONSBEST |
| | TOUGH | ZÄH |
| | WELDABLE | SCHWEISSBAR |
| | | |
| 40 | Deutsches Patent- und Markenamt DPMA | 12.11.2009 (16:41h) |
| Publication | JP2001107198 AA | 17.04.2001 |
| Priority | JP11-287375 | 07.10.1999 |
| Application | JP0710199911-287375 | |
| Applicant | NIPPON STEEL CORP. | |
| Inventor | SAKAMOTO, TOSHIHARU; OKA, MASA HARU; ASAHI, HITOSHI UND MITERFINDER | |
| Title | MARTENSITIC STAINLESS STEEL LINEPIPE EXCELLENT IN SSC RESISTANCE AND ITS PRODUCING METHOD | |
| Info | | |
| IPC | C22C03800 | |
| Composition nr. | 1 | Composite component - |
| Composition | [weight-%]: C : 0-0,02 * SI : 0-0,5 * MN : 0-1,5 * P : 0-0,03 * S : 0-0,005 * CR : 10-14 * NI : 5-8 * MO : 2,5-3,5 * N : 0-0,03 * AL : 0-0,15 * CU : 0-1 + TI : 0,003-0,05 + ZR : 0,01-0,2 + NB : 0-0,05 + V : 0-0,1 + TA : 0-0,15 + CA : 0,0005-0,005 + MG : 0,0005-0,005 + B : 0,0005-0,005 * FE : REST | |
| Keywords | (english) | (german) |
| | AUSTENITE | AUSTENIT |
| | CORROSION-RESISTING | KORROSIONSBEST |
| | HEAT-TREATMENT | WÄRMEBEHANDLUNG |
| | MARTENSITE | MARTENSIT |
| | STRESS-CORROSION-RESIST | SPANNUNGSKORROSIONSBEST |
| | | |
| 41 | Deutsches Patent- und Markenamt DPMA | 12.11.2009 (16:41h) |
| Publication | JP2001098348 AA | 10.04.2001 |
| Priority | JP11-270762 | 24.09.1999 |
| Application | JP2409199911-270762 | |
| Applicant | KAWASAKI STEEL CORP. | |
| Inventor | KIMURA, MITSUO; MIYATA, YUKIO; TOYOOKA, TAKA AKI | |
| Title | HIGH STRENGTH MARTENSITIC STAINLESS STEEL OIL WELL PIPE | |
| Info | | |
| IPC | C22C03800 | |
| Composition | 1 | Composite component - |

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|-----------------|---|-------------------------|
| nr. | | |
| Composition | [weight-%]: CR : 10,5-15 * MN : 0,3-2 * NI : 0-7 * NB : 0-0,2 * V : 0-0,2 * C : 0-0,03 * N : 0-0,03 * SI : 0-0,7 * S : 0-0,005 * AL : 0-0,05 * O : 0-0,01 * FE : REST | |
| Keywords | (english) | (german) |
| | CORROSION-RESISTING | KORROSIONSBEST |
| | MARTENSITE | MARTENSIT |
| | TENSILE-STRENGTH | ZUGFEST |
| | WELDABLE | SCHWEISSBAR |
| | | |
| 42 | Deutsches Patent- und Markenamt DPMA | 12.11.2009 (16:41h) |
| Publication | JP01059143 A | 06.03.2001 |
| Priority | JP236922 | 24.08.1999 |
| Application | JP2408199911-236922 | |
| Applicant | SUMITOMO METAL IND LTD. | |
| Inventor | UEDA, MASAKATSU/ TAKABE, HIDEKI/ NAKAMURA, KEIICHI UND MITERFINDER | |
| Title | STAINLESS STEEL WITH HIGH STRENGTH AND HIGH TOUGHNESS, EXCELLENT IN STRESS CORROSION CRACKING RESISTANCE | |
| Info | MO+1/2W:0-0,8 | |
| IPC | C22C03800 | |
| Composition nr. | 1 | Composite component - |
| Composition | [weight-%]: C : 0,001-0,05 * SI : 0,01-1 * MN : 0,1-1,5 * CR : 9-14 * NI : 0,5-4 * AL : 0,001-0,1 * MO + W : 0-0,8 * CU : 0-1 * FE : REST | |
| Keywords | (english) | (german) |
| | CORROSION-RESISTING | KORROSIONSBEST |
| | MARTENSITE | MARTENSIT |
| | STRESS-CORROSION-RESIST | SPANNUNGSKORROSIONSBEST |
| | TENSILE-STRENGTH | ZUGFEST |
| | TOUGH | ZÄH |
| | | |
| 43 | Deutsches Patent- und Markenamt DPMA | 12.11.2009 (16:41h) |
| Publication | JP00328202 A | 28.11.2000 |
| Priority | JP139210 | 19.05.1999 |
| Application | JP1905199911-139210 | |
| Applicant | SUMITOMO METAL IND LTD. | |
| Inventor | OMURA, TOMOHIKO/ KUSHIDA, TAKAHIRO | |
| Title | LOW CARBON MARTENSITIC STAINLESS STEEL SHEET EXCELLENT IN FORMABILITY, CORROSION RESISTANCE AND TOUGHNESS, ITS PRODUCTION AND WELDED STEEL PIPE | |
| Info | | |
| IPC | C22C03800 | |
| Composition | | |

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| nr. | 1 | Composite component - |
| Composition | [weight-%]: C : 0-0,02 * SI : 0-1 * MN : 0-3 * P : 0-0,04 * S : 0-0,01 * CR : 9-13 * NI : 1-4 * MO : 0-1,2 * AL : 0-0,1 * TI : 0-0,1 * CU : 0-1,2 * NB : 0-0,1 * V : 0-0,1 * N : 0-0,02 * FE : REST | |
| Keywords | (english) | (german) |
| | CORROSION-RESISTING | KORROSIONSBEST |
| | MARTENSITE | MARTENSIT |
| | TOUGH | ZÄH |
| | USE | VERWENDUNG |
| | WELDABLE | SCHWEISSBAR |
| | | |
| 44 | Deutsches Patent- und Markenamt DPMA | 12.11.2009 (16:41h) |
| Publication | JP00328201 A | 28.11.2000 |
| Priority | JP135249 | 17.05.1999 |
| Application | JP1705199911-135249 | |
| Applicant | NIPPON STEEL CORP. | |
| Inventor | SAKAMOTO, TOSHIHARU/ YAMAMOTO, SHUJI/ OKA, MASA HARU UND MITERFINDER | |
| Title | MARTENSITIC STAINLESS STEEL EXCELLENT IN HOT WORKABILITY | |
| Info | | |
| IPC | C22C03800 | |
| Composition nr. | 1 | Composite component - |
| Composition | [weight-%]: C : 0,005-0,05 * SI : 0,1-0,5 * MN : 0,1-1 * P : 0-0,03 * S : 0-0,05 * CR : 10-14 * NI : 2-8 * MO : 0,5-3 * N : 0,005-0,05 * AL : 0,02-0,15 * TI : 0,003-0,05 * FE : REST | |
| Keywords | (english) | (german) |
| | CORROSION-RESISTING | KORROSIONSBEST |
| | MARTENSITE | MARTENSIT |
| | PRODUCTION | HERSTELLUNG |
| | | |
| 45 | Deutsches Patent- und Markenamt DPMA | 12.11.2009 (16:41h) |
| Publication | WO0053821 A | 14.09.2000 |
| Priority | US123230 | 08.03.1999 |
| Application | WO08032000US00/05916 | |
| Applicant | CRS HOLDINGS INC. | |
| Inventor | MARTIN, JAMES/ SCHMITT, ROLAND/ GOWER, RONALD | |
| Title | AN ENHANCED MACHINABILITY PRECIPITATION-HARDENABLE STAINLESS STEEL FOR CRITICAL APPLICATIONS | |
| Info | | |
| IPC | C22C03842 | |
| Composition nr. | 1 | Composite component - |

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| Composition | [weight-%]: C : 0-0,03 * MN : 0-1 * SI : 0-1 * P : 0-0,03 * S : 0,005-0,015 * CR : 14-15,5 * NI : 3,5-5,5 * MO : 0-1 * CU : 2,5-4,5 * NB * TA : 0-0,2 * AL : 0-0,05 * B : 0-0,01 * N : 0-0,03 * FE : REST | |
| Keywords | (english) | (german) |
| | CORROSION-RESISTING | KORROSIONSBEST |
| | HARD | HART |
| | MACHINEABLE | ZERSPANBAR |
| | MARTENSITE | MARTENSIT |
| | PLASTIC | PLASTISCH |
| | PRECIPITATION-HARDENING | AUSSCHIEDUNGSH |
| | TENSILE-STRENGTH | ZUGFEST |
| | TOUGH | ZÄH |
| | | |
| 46 | Deutsches Patent- und Markenamt DPMA | 12.11.2009 (16:41h) |
| Publication | EP1008666 A | 14.06.2000 |
| Priority | JP348187 | 08.12.1998 |
| Application | EP0812199999309869 | |
| Applicant | SUMITOMO METAL INDUSTRIES LIMITED | |
| Inventor | AMAYA, HISASHI / ANRAKU, TOSHIRO / HIDAKA, YASUYOSHI | |
| Title | MARTENSITIC STAINLESS STEEL PRODUCTS | |
| Info | | |
| IPC | C22C03818 | |
| Composition nr. | 1 | Composite component - |
| Composition | [weight-%]: C : 0-0,5 * SI : 0-1 * MN : 0-5 * P : 0-0,023 * S : 0-0,003 * CR : 9-15 * NI : 0-8 * MO : 0-7 * TI : 0-0,1 * ZR : 0-0,1 * NB : 0-0,1 * AL : 0-0,1 * FE : REST | |
| Keywords | (english) | (german) |
| | CORROSION-RESISTING | KORROSIONSBEST |
| | MARTENSITE | MARTENSIT |
| | SURFACE | OBERFLÄCHE |
| | USE | VERWENDUNG |
| | | |
| 47 | Deutsches Patent- und Markenamt DPMA | 12.11.2009 (16:41h) |
| Publication | EP1006204 A | 07.06.2000 |
| Priority | JP339048 | 30.11.1998 |
| Application | EP2611199999402952 | |
| Applicant | SUMITOMO METAL INDUSTRIES LIMITED | |
| Inventor | OMURA, TOMOHIKO / KUSHIDA, TAKAHIRO | |
| Title | LOW CARBON MARTENSITE STAINLESS STEEL PLATE | |
| Info | | |
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| IPC | C21D00810 | |
| Composition nr. | 1 | Composite component - |
| Composition | [weight-%]: C : 0-0,05 * SI : 0-1 * MN : 0-5 * P : 0-0,04 * S : 0-0,01 * CR : 10-15 * MO : 0-3 * AL : 0-0,1 * TI : 0-0,75 * NI : 1-8 * FE : REST | |
| Keywords | (english) | (german) |
| | AUSTENITE | AUSTENIT |
| | CORROSION-RESISTING | KORROSIONSBEST |
| | HEAT-TREATMENT | WÄRMEBEHANDLUNG |
| | MARTENSITE | MARTENSIT |
| | PRODUCTION | HERSTELLUNG |
| | WELDABLE | SCHWEISSBAR |
| | | |
| 48 | Deutsches Patent- und Markenamt DPMA | 12.11.2009 (16:41h) |
| Publication | EP995876 A | 26.04.2000 |
| Priority | GB9822979 | 22.10.1998 |
| Application | EP1310199999308059 | |
| Applicant | CAMBO INTERNATIONAL (UK) LIMITED | |
| Inventor | EVANS, STEVEN MARTIN / BELL, ANDREW | |
| Title | METHODS OF MANUFACTURING ROTARY DRILL BITS | |
| Info | | |
| IPC | E21B01000 | |
| Composition nr. | 1 | Composite component - |
| Composition | [weight-%]: C : 0-0,2 * SI : 0-1 * MN : 0-1 * P : 0-0,3 * S : 0-0,03 * CR : 12-17 * NI : 5,5-3,5 * AL : 0-1,2 * CO : 0-2 * CU : 2 * MO : 3 * FE : REST | |
| Keywords | (english) | (german) |
| | COMPOSITE-MATERIAL | VERBUNDW |
| | MARTENSITE | MARTENSIT |
| | METAL-POWDER | METALLPULVER |
| | PRECIPITATION-HARDENING | AUSSCHIEDUNGSH |
| | SINTERED-PRODUCT | SINTERW |
| | USE | VERWENDUNG |
| | | |
| 49 | Deutsches Patent- und Markenamt DPMA | 12.11.2009 (16:41h) |
| Publication | JP00008144 A | 11.01.2000 |
| Priority | JP175724 | 23.06.1998 |
| Application | JP2306199810-175724 | |
| Applicant | SUMITOMO METAL IND LTD. | |
| Inventor | KUSHIDA, TAKAHIRO/ OMURA, TOMOHIKO/ KONDO, KUNIO | |
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|-----------------|---|-----------------------|
| Title | FERRITE-MARTENSITE DUPLEX STAINLESS WELDED STEEL PIPE | |
| Info | | |
| IPC | C22C03800 | |
| Composition nr. | 1 | Composite component - |
| Composition | [weight-%]: C : 0-0,05 * SI : 0-1 * MN : 0-0,5 * NI : 0,7-4 * CR : 9-15 * AL : 0-0,1 * N : 0-0,02 * CU : 0-1,2 * MO : 0-1,2 * TI : 0-0,2 * V : 0-0,1 * FE : REST | |
| Keywords | (english) | (german) |
| | CORROSION-RESISTING | KORROSIONSBEST |
| | FERRITE | FERRIT |
| | MARTENSITE | MARTENSIT |
| | TENSILE-STRENGTH | ZUGFEST |
| | WELDABLE | SCHWEISSBAR |
| | | |
| 50 | Deutsches Patent- und Markenamt DPMA | 12.11.2009 (16:41h) |
| Publication | JP11343519 AA | 14.12.1999 |
| Priority | JP10-151016 | 01.06.1998 |
| Application | JP0106199810-151016 | |
| Applicant | Sumitomo Metal Ind. Ltd. | |
| Inventor | Omura, Tomohiko; Kushida, Takahiro | |
| Title | Production of low carbon martensitic stainless steel welded tube | |
| Info | Bedingung gilt:3-0,5*MN<=NI<=8-0,5MN | |
| IPC | C21D009/50 | |
| Composition nr. | 1 | Composite component - |
| Composition | [weight-%]: C : 0-0,05 * SI : 0-1 * MN : 0-5 * P : 0-0,04 * S : 0-0,01 * CR : 10-15 * MO : 0,1-3 * AL : 0-0,1 * TI : 0-0,1 * NI : 0,5-8 * N : 0-0,333 * FE : REST | |
| Keywords | (english) | (german) |
| | CORROSION-RESISTING | KORROSIONSBEST |
| | HEAT-TREATMENT | WÄRMEBEHANDLUNG |
| | MARTENSITE | MARTENSIT |
| | PRODUCTION | HERSTELLUNG |
| | USE | VERWENDUNG |
| | WELDABLE | SCHWEISSBAR |
| | | |
| 51 | Deutsches Patent- und Markenamt DPMA | 12.11.2009 (16:41h) |
| Publication | JP11310855 A | 09.11.1999 |
| Priority | JP116573 | 27.04.1998 |
| Application | JP2704199810-116573 | |
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| Applicant | SUMITOMO METAL IND LTD. | |
| Inventor | AMAYA, TAKASHI/ KONDO, KUNIO | |
| Title | MARTENSITIC STAINLESS STEEL FOR OIL WELL, EXCELLENT IN CORROSION RESISTANCE, AND ITS PRODUCTION | |
| Info | MO+0,5W:0-5; NI > 0,64.CU -0,15 | |
| IPC | C22C03800 | |
| Composition nr. | 1 | Composite component - |
| Composition | [weight-%]: C : 0-0,05 * SI : 0-1 * MN : 0-5 * P : 0-0,04 * S : 0-0,005 * O : 0-0,005 * N : 0-0,05 * CR : 7-15 * MO + W : 0-10 * NI : 0-8 * CU : 0,25-5 * AL : 0,001-0,1 * CA : 0-0,05 + MG : 0-0,05 + LA : 0-0,05 + CE : 0-0,05 * TI : 0-0,5 + ZR : 0-0,5 + NB : 0-0,5 * FE : REST | |
| Keywords | (english) | (german) |
| | CORROSION-RESISTING | KORROSIONSBEST |
| | MARTENSITE | MARTENSIT |
| | STRESS-CORROSION-RESIST | SPANNUNGSKORROSIONSBEST |
| | USE | VERWENDUNG |
| | | |
| 52 | Deutsches Patent- und Markenamt DPMA | 12.11.2009 (16:41h) |
| Publication | JP11256282 A | 21.09.1999 |
| Priority | JP61617 | 12.03.1998 |
| Application | JP1203199810-61617 | |
| Applicant | NISSHIN STEEL CO LTD | |
| Inventor | MIYAKUSU, KATSUHISA / TOMIMURA, HIROKI / ISOZAKI, SEIICHI | |
| Title | PERCIPITATION HARDENING MARTENSITIC STAINLESS STEEL EXCELLENT IN STRENGTH, TOUGHNESS, AND FATIGUE CHARACTERISTIC, AND ITS PRODUCTION | |
| Info | | |
| IPC | C22C03800 | |
| Composition nr. | 1 | Composite component - |
| Composition | [weight-%]: C : 0-0,05 * SI : 0,5-2 * MN : 0-1 * P : 0,02-0,06 * S : 0-0,005 * NI : 6,5-9 * CR : 12-15 * CU : 0-1 * MO : 0,5-3 * TI : 0,15-0,6 * N : 0-0,015 * AL : 0-0,3 * FE : REST | |
| Keywords | (english) | (german) |
| | CORROSION-RESISTING | KORROSIONSBEST |
| | FATIGUE-RESISTING | SCHWINGFEST |
| | MARTENSITE | MARTENSIT |
| | PLASTIC | PLASTISCH |
| | PRECIPITATION-HARDENING | AUSSCHIEDUNGSH |
| | PRODUCTION | HERSTELLUNG |
| | SPRINGS | FEDERN |
| | TENSILE-STRENGTH | ZUGFEST |
| | TOUGH | ZÄH |

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| 53 | <i>Deutsches Patent- und Markenamt DPMA</i> | <i>12.11.2009 (16:41h)</i> |
| Publication | JP11256281 A | 21.09.1999 |
| Priority | JP59137 | 11.03.1998 |
| Application | JP1103199810-59137 | |
| Applicant | SUMITOMO METAL IND LTD | |
| Inventor | OGAWA, KAZUHIRO / HIRATA, HIROMASA | |
| Title | MARTENSITIC STAINLESS STEEL EXCELLENT IN WELDING PERFORMANCE CHARACTERISTIC | |
| Info | | |
| IPC | C22C03800 | |
| Composition nr. | 1 | Composite component - |
| Composition | [weight-%]: C : 0,001-0,015 * SI : 0,1-1 * MN : 0,1-1,5 * CR : 7-14 * NI : 0,5-7 * FE : REST * AL : 0-0,06 * P : 0-0,03 * S : 0-0,005 * O : 0-0,008 * TI + ZR + MO + W + CA + MG + LA + CE : 0-0,33 | |
| Keywords | (english) | (german) |
| | CORROSION-RESISTING | KORROSIONSBEST |
| | FILLER-MATERIAL | SCHWEISSZUSATZW |
| | MARTENSITE | MARTENSIT |
| | | |
| 54 | <i>Deutsches Patent- und Markenamt DPMA</i> | <i>12.11.2009 (16:41h)</i> |
| Publication | EP937782 A | 25.08.1999 |
| Priority | JP40178 | 23.02.1998 |
| Application | EP2202199999400423 | |
| Applicant | SUMITOMO METAL INDUSTRIES LTD. | |
| Inventor | HIDAKA, YASUYOSHI/ ANRAKU, TOSHIRO/AMAYA, HISASHI | |
| Title | MARTENSITIC STAINLESS STEEL HAVING OXIDE SCALE LAYERS AND METHOD OF MANUFACTURING THE SAME | |
| Info | | |
| IPC | C22C03818 | |
| Composition nr. | 1 | Composite component b |
| Composition | Composite material [%]: PLATTIERUNG * KERN : 100 Component a [weight-%]: FE.O * FE.CR.O : 100 Component b [weight-%]: C : 0-0,5 * SI : 0-1 * MN : 0-2 * CR : 9-16 * NI : 0-7 * MO : 0-7 * TI : 0-0,2 * ZR : 0-0,2 * NB : 0-0,1 * AL : 0-0,1 * FE : REST | |
| Keywords | (english) | (german) |
| | CLADDING-MATERIAL | PLATTIERW |
| | COMPOSITE-MATERIAL | VERBUNDW |

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|-----------------|---|-------------------------|
| | CORROSION-RESISTING | KORROSIONSBEST |
| | HEAT-TREATMENT | WÄRMEBEHANDLUNG |
| | MARTENSITE | MARTENSIT |
| | PRODUCTION | HERSTELLUNG |
| | STRESS-CORROSION-RESIST | SPANNUNGSKORROSIONSBEST |
| | SURFACE | OBERFLÄCHE |
| | USE | VERWENDUNG |
| | | |
| 55 | Deutsches Patent- und Markenamt DPMA | 12.11.2009 (16:41h) |
| Publication | JP11140594 A | 25.05.1999 |
| Priority | JP304440 | 06.11.1997 |
| Application | JP061119979-304440 | |
| Applicant | NIPPON STEEL CORP. | |
| Inventor | OKA, MASA HARU/ SAKAMOTO, TOSHI HARU | |
| Title | SEAMLESS MARTENSITIC STAINLESS STEEL PIPE EXCELLENT IN HOT WORKABILITY AND SULFIDE STRESS CRACKING RESISTANCE | |
| Info | | |
| IPC | C22C03800 | |
| Composition nr. | 1 | Composite component - |
| Composition | [weight-%]: C : 0-0,05 * SI : 0-0,5 * MN : 0-1,5 * P : 0-0,03 * S : 0-0,001 * CR : 10-14 * NI : 4-7 * MO : 1-3 * CU : 1-2 * AL : 0,061-0,3 * N : 0-0,08 * FE : REST | |
| Keywords | (english) | (german) |
| | CORROSION-RESISTING | KORROSIONSBEST |
| | MARTENSITE | MARTENSIT |
| | PLASTIC | PLASTISCH |
| | STRESS-CORROSION-RESIST | SPANNUNGSKORROSIONSBEST |
| | USE | VERWENDUNG |
| | | |
| 56 | Deutsches Patent- und Markenamt DPMA | 12.11.2009 (16:41h) |
| Publication | EP1026273 A | 09.08.2000 |
| Priority | JP194000 | 18.07.1997 |
| Application | EP1707199898932588 | |
| Applicant | SUMITOMO METAL INDUSTRIES LTD. | |
| Inventor | UEDA, MASA KATSU/ TAKABE, HIDEKI/ KONDO, KUNIO UND MITERFINDER | |
| Title | MARTENSITE STAINLESS STEEL OF HIGH CORROSION RESISTANCE | |
| Info | P < 0,046 -0,0008.HRC; 98 +47.C -1,1.CR +1,4.NI -150.AL -200.NB -50.TI -200.ZR -22(MO+0,5.W) > 50 | |
| IPC | C22C03800 | |
| Composition | | |

| | | |
|-----------------|---|-----------------------|
| nr. | 1 | Composite component - |
| Composition | [weight-%]: C : 0-0,04 * SI : 0-1 * MN : 0,1-1 * P : 0-0,03 * S : 0-0,01 * N : 0-0,05 * AL : 0,001-0,2 * CU : 0-2 * CR : 7-15 * NI : 0,7-8 * NB : 0-0,1 * TI : 0-0,1 * ZR : 0-0,1 * MO : 0-3 + W : 0-6 * CA + MG + LA + CE : 0-0,05 * FE : REST | |
| Keywords | (english) | (german) |
| | CORROSION-RESISTING | KORROSIONSBEST |
| | HEAT-TREATMENT | WÄRMEBEHANDLUNG |
| | MARTENSITE | MARTENSIT |
| | TENSILE-STRENGTH | ZUGFEST |
| | TOUGH | ZÄH |
| | USE | VERWENDUNG |
| | WELDABLE | SCHWEISSBAR |
| | | |
| 57 | Deutsches Patent- und Markenamt DPMA | 12.11.2009 (16:41h) |
| Publication | WO9904052 A | 28.01.1999 |
| Priority | JP194000 | 18.07.1997 |
| Application | WO17071998JP98/03243 | |
| Applicant | SUMITOMO METAL INDUSTRIES, LTD. | |
| Inventor | UEDA, MASAKATSU / TAKABE, HIDEKI / KONDO, KUNIO UND MITERFINDER | |
| Title | MARTENSITE STAINLESS STEEL OF HIGH CORROSION RESISTANCE | |
| Info | | |
| IPC | C22C03800 | |
| Composition nr. | 1 | Composite component - |
| Composition | [weight-%]: C : 0-0,04 * CR : 7-15 * NI : 0,7-8 * AL : 0,001-0,2 * SI : 0-1 * MN : 0-1,5 * CU : 0-2 * S : 0-0,01 * N : 0-0,05 * NB : 0-0,1 + TI : 0-0,1 + ZR : 0-0,1 * CA : 0-0,05 + MG : 0-0,05 + LA : 0-0,05 + CE : 0-0,05 * FE : REST | |
| Keywords | (english) | (german) |
| | CORROSION-RESISTING | KORROSIONSBEST |
| | HARD | HART |
| | MARTENSITE | MARTENSIT |
| | TENSILE-STRENGTH | ZUGFEST |
| | TOUGH | ZÄH |
| | | |
| 58 | Deutsches Patent- und Markenamt DPMA | 12.11.2009 (16:41h) |
| Publication | JP10273757 A | 13.10.1998 |
| Priority | JP92845 | 28.03.1997 |
| Application | JP280319979-92845 | |
| Applicant | NISSHIN STEEL CO., LTD. | |
| Inventor | MIYAKUSU, KATSUHISA/ IGAWA, TAKASHI/ FUJIMOTO, HIROSHI UND MITERFINDER | |
| Title | IMPROVEMENT OF PRESS PLATE | |

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| Info | | |
| IPC | C22C03800 | |
| Composition nr. | 1 | Composite component - |
| Composition | [weight-%]: C : 0,01-0,15 * SI : 0-0,555 * MN + NI + CU : 0,3-5 * CR : 10-20 * MO : 0-1 * B : 0-0,03 * AL : 0-0,2 * FE : REST | |
| Keywords | (english) | (german) |
| | FERRITE | FERRIT |
| | MARTENSITE | MARTENSIT |
| | SURFACE | OBERFLÄCHE |
| | TENSILE-STRENGTH | ZUGFEST |
| | USE | VERWENDUNG |
| | | |
| 59 | Deutsches Patent- und Markenamt DPMA | 12.11.2009 (16:41h) |
| Publication | JP10237597 A | 08.09.1998 |
| Priority | JP39026 | 24.02.1997 |
| Application | JP240219979-39026 | |
| Applicant | NISSHIN STEEL CO LTD | |
| Inventor | HASEGAWA, MORIHIRO / MIYAKUSU, KATSUHISA / OKUBO, NAOTO UND MITERFINDER | |
| Title | HIGH STRENGTH AND HIGH DUCTILITY DUAL-PHASE STAINLESS STEEL EXCELLENT IN ANTIBACTERIAL PROPERTY AND ITS PRODUCTION | |
| Info | | |
| IPC | C22C03800 | |
| Composition nr. | 1 | Composite component - |
| Composition | [weight-%]: C : 0-0,1 * SI : 0-2 * MN : 0-2 * CR : 10-20 * NI : 0-4 * N : 0-0,1 * CU : 0,4-5 * MO : 0-3 + AL : 0-0,2 + REM : 0-0,2 + Y : 0-0,2 + CA : 0-0,1 + MG : 0-0,1 + B : 0-0,01 * FE : REST | |
| Keywords | (english) | (german) |
| | CORROSION-RESISTING | KORROSIONSBEST |
| | FERRITE | FERRIT |
| | HEAT-TREATMENT | WÄRMEBEHANDLUNG |
| | MARTENSITE | MARTENSIT |
| | PLASTIC | PLASTISCH |
| | PRECIPITATION-HARDENING | AUSSCHIEDUNGSH |
| | PRODUCTION | HERSTELLUNG |
| | TENSILE-STRENGTH | ZUGFEST |
| | | |
| 60 | Deutsches Patent- und Markenamt DPMA | 12.11.2009 (16:41h) |
| Publication | JP10237604 A | 08.09.1998 |
| Priority | JP340235 | 19.12.1996 |
| Application | JP061119979-304441 | |

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|-----------------|--|-------------------------|
| Applicant | NIPPON STEEL CORP. | |
| Inventor | OKA, MASAHARU/ SAKAMOTO, TOSHIHARU/ YAMAMOTO, SHUJI UND MITERFINDER | |
| Title | MARTENSITIC STAINLESS STEEL EXCELLENT IN HOT WORKABILITY AND SULFIDE STRESS CRACKING RESISTANCE, METHOD OF BLOOMING THEREFOR, SEAMLESS STEEL TUBE USING SAME, AND ITS PRODUCTION | |
| Info | | |
| IPC | C22C03800 | |
| Composition nr. | 1 | Composite component - |
| Composition | {weight-%}: C : 0-0,05 * SI : 0-0,5 * MN : 0-1,5 * P : 0-0,03 * S : 0-0,002 * CR : 10-14 * NI : 4-7 * AL : 0,061-0,3 * N : 0-0,08 * MO : 1-3 * CU : 1-2 * CA : 0-0,1 * TI : 0,001-0,05 * FE : REST | |
| Keywords | (english) | (german) |
| | CORROSION-RESISTING | KORROSIONSBEST |
| | MARTENSITE | MARTENSIT |
| | PLASTIC | PLASTISCH |
| | STRESS-CORROSION-RESIST | SPANNUNGSKORROSIONSBEST |
| | USE | VERWENDUNG |
| | | |
| 61 | Deutsches Patent- und Markenamt DPMA | 12.11.2009 (16:41h) |
| Publication | EP953401 A | 03.11.1999 |
| Priority | JP321210 | 18.11.1996 |
| Application | EP1811199797912491 | |
| Applicant | NIPPON STEEL CORPORATION | |
| Inventor | INOUE, HIROSHIGE / KOSEKI, TOSHIHIKO / OHKITA, SHIGERU | |
| Title | WIRE FOR WELDING HIGH-CHROMIUM STEEL | |
| Info | (CR+MO+1,5.SI)/(NI+0,5.MN+30.C):1,8-2,8; (CR+MO+1,5.SI).(NI+0,5.MN+30.C):100-140 | |
| IPC | B23K03530 | |
| Composition nr. | 1 | Composite component - |
| Composition | {weight-%}: C : 0,005-0,12 * SI : 0,01-1 * MN : 0,02-2 * CR : 12-17 * NI : 5-8 * MO : 1-3 * CU : 0-2 * P : 0-0,03 * S : 0-0,01 * TI : 0-0,05 * AL : 0-0,05 * FE : REST | |
| Keywords | (english) | (german) |
| | AUSTENITE | AUSTENIT |
| | CORROSION-RESISTING | KORROSIONSBEST |
| | FERRITE | FERRIT |
| | FILLER-MATERIAL | SCHWEISSZUSATZW |
| | HIGH-TEMPER-STRENGTH | WARMFEST |
| | MARTENSITE | MARTENSIT |
| | TENSILE-STRENGTH | ZUGFEST |
| | TOUGH | ZÄH |
| | USE | VERWENDUNG |
| | | |

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| | WIRE | DRAHT |
| | | |
| 62 | <i>Deutsches Patent- und Markenamt DPMA</i> | <i>12.11.2009 (16:41h)</i> |
| Publication | EP953401 A | 03.11.1999 |
| Priority | JP321210 | 18.11.1996 |
| Application | EP1811199797912491 | |
| Applicant | NIPPON STEEL CORPORATION | |
| Inventor | INOUE, HIROSHIGE / KOSEKI, TOSHIHIKO / OHKITA, SHIGERU | |
| Title | WIRE FOR WELDING HIGH-CHROMIUM STEEL | |
| Info | | |
| IPC | B23K03530 | |
| Composition nr. | 2 | Composite component - |
| Composition | [weight-%]: C : 0-0,035 * SI : 0-0,5 * MN : 0,1-1,5 * CR : 9-13 * NI : 1,5-6,5 * MO : 1-3 * CU : 0-1,8 * AL : 0-0,05 * N : 0-0,02 * P : 0-0,03 * S : 0-0,005 * FE : REST | |
| Keywords | (english) | (german) |
| | FERRITE | FERRIT |
| | MARTENSITE | MARTENSIT |
| | USE | VERWENDUNG |
| | WELDABLE | SCHWEISSBAR |
| | | |
| 63 | <i>Deutsches Patent- und Markenamt DPMA</i> | <i>12.11.2009 (16:41h)</i> |
| Publication | WO9822255 A | 28.05.1998 |
| Priority | JP321210 | 18.11.1996 |
| Application | WO18111997JP97/04190 | |
| Applicant | NIPPON STEEL CORP. | |
| Inventor | INOUE, HIROSHIGE/ OHKITA, SHIGERU/ KOSEKI, TOSHIHIKO | |
| Title | WIRE FOR WELDING HIGH-CHROMIUM STEEL | |
| Info | (CR+MO+1,5.SI)/(NI+0,5.MN+30.C):1,8-2,8; (CR+MO+1,5.SI).(NI+0,5.MN+30.C):100-140 | |
| IPC | B23K03530 | |
| Composition nr. | 1 | Composite component - |
| Composition | [weight-%]: C : 0-0,12 * SI : 0-1 * MN : 0,02-2 * P : 0-0,03 * S : 0-0,005 * CR : 7,5-17 * NI : 1,5-8 * MO : 1-3 * CU : 0-2 * TI : 0-0,5 * AL : 0-0,05 * N : 0-0,02 * FE : REST | |
| Keywords | (english) | (german) |
| | AUSTENITE | AUSTENIT |
| | CORROSION-RESISTING | KORROSIONSBEST |
| | FERRITE | FERRIT |
| | FILLER-MATERIAL | SCHWEISSZUSATZW |
| | MARTENSITE | MARTENSIT |
| | | |

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| | TENSILE-STRENGTH | ZUGFEST |
| | TOUGH | ZÄH |
| | USE | VERWENDUNG |
| | WIRE | DRAHT |
| | | |
| 64 | <i>Deutsches Patent- und Markenamt DPMA</i> | <i>12.11.2009 (16:41h)</i> |
| Publication | JP10130787 A | 19.05.1998 |
| Priority | JP286849 | 29.10.1996 |
| Application | JP291019968-286849 | |
| Applicant | KAWASAKI STEEL CORP. | |
| Inventor | KIMURA, MITSUO/ MIYATA, YUKIO/ TOYOOKA, TAKAAKI UND MITERFINDER | |
| Title | HIGH STRENGTH MARTENSITIC STAINLESS STEEL FOR OIL WELL PIPE, EXCELLENT IN STRESS CORROSION CRACKING RESISTANCE AND HIGH TEMPERATURE TENSILE CHARACTERISTIC | |
| Info | V+0,8.NB:0,02-0,2; CR+3,2.MO+16.N+0,5.NI-5.C >= 17; 1,1.CR+1,5.SI+MO-NI-0.5.MN-30.(C+N) <= 6 | |
| IPC | C22C03800 | |
| Composition nr. | 1 | Composite component - |
| Composition | [weight-%]: C : 0-0,05 * SI : 0-0,5 * MN : 0,3-1,5 * P : 0-0,03 * S : 0-0,005 * CR : 11-17 * NI : 3-7 * MO : 0,5-5 * AL : 0-0,05 * N : 0,01-0,15 * O : 0-0,005 * NB : 0-0,2 * V : 0-0,2 * FE : REST | |
| Keywords | (english) | (german) |
| | CORROSION-RESISTING | KORROSIONSBEST |
| | HIGH-TEMPER-STRENGTH | WARMFEST |
| | MARTENSITE | MARTENSIT |
| | STRESS-CORROSION-RESIST | SPANNUNGSKORROSIONSBEST |
| | USE | VERWENDUNG |
| | | |
| 65 | <i>Deutsches Patent- und Markenamt DPMA</i> | <i>12.11.2009 (16:41h)</i> |
| Publication | JP10130785 A | 19.05.1998 |
| Priority | JP281938 | 24.10.1996 |
| Application | JP241019968-281938 | |
| Applicant | SUMITOMO METAL IND LTD. | |
| Inventor | AMAYA, TAKASHI/ UEDA, MASAKATSU/ KONDO, KUNIO | |
| Title | MARTENSITIC STAINLESS STEEL FOR OIL WELL USE, EXCELLENT IN HOT WORKABILITY | |
| Info | NI >= 0,64.CU-0,15; 21.CR+25.MO+17.SI+35.NI+17.MN <= 731; 30.CR+36.MO+14.SI-28.NI-13.MN <= 455 | |
| IPC | C22C03800 | |
| Composition nr. | 1 | Composite component - |
| Composition | [weight-%]: C : (0)-0,05 * SI : 0-1 * MN : 0-5 * P : 0-0,04 * S : 0-0,0008 * N : 0-0,5 * O : 0-0,005 * V : 0-0,02 * CR : 7-14 * MO : 0,5-7 * AL : 0,001-0,1 * NI : 0-8 * CU : 0-5 * TI : (0)-0,6 * FE : | |

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| | REST | |
| Keywords | (english) | (german) |
| | MARTENSITE | MARTENSIT |
| | STRESS-CORROSION-RESIST | SPANNUNGSKORROSIONSBEST |
| | TENSILE-STRENGTH | ZUGFEST |
| | USE | VERWENDUNG |
| | | |
| 66 | Deutsches Patent- und Markenamt DPMA | 12.11.2009 (16:41h) |
| Publication | DE19781031 T | 02.04.1998 |
| Priority | JP256333 | 27.09.1996 |
| Application | WO26091997JP97/03439 | |
| Applicant | NIPPON YAKIN KOGYO CO., LTD. | |
| Inventor | TANIUCHI, TOSHIHIKO/ FUJII, HIROYUKI/ TAKAI, TAKAHIRO | |
| Title | AUSTENITISCHER ROSTFREIER STAHL MIT ANTIMIKROBIELLEN EIGENSCHAFTEN UND VERFAHREN ZU SEINER HERSTELLUNG | |
| Info | 12,6.(C+N)+0,35.SI+1,05.MN+NI+0,65.CR+0,6.CU+0,4.AL >20 | |
| IPC | C22C03818 | |
| Composition nr. | 1 | Composite component - |
| Composition | [weight-%]: C : 0-0,2 * SI : 0-2 * MN : 0-10 * NI : 4-28 * CR : 12-25 * CU : 0,5-10 * AL : 0,1-5 * N : 0-0,1 * MO : 0-8 * B : 0-0,02 * TI + ZR + V + NB + TA : 0-1 * FE : REST | |
| Keywords | (english) | (german) |
| | AUSTENITE | AUSTENIT |
| | COMPOSITE-MATERIAL | VERBUNDW |
| | CORROSION-RESISTING | KORROSIONSBEST |
| | HEAT-TREATMENT | WÄRMEBEHANDLUNG |
| | MARTENSITE | MARTENSIT |
| | PLASTIC | PLASTISCH |
| | PRODUCTION | HERSTELLUNG |
| | SURFACE | OBERFLÄCHE |
| | USE | VERWENDUNG |
| | WELDABLE | SCHWEISSBAR |
| | | |
| 67 | Deutsches Patent- und Markenamt DPMA | 12.11.2009 (16:41h) |
| Publication | JP10025549 A | 27.01.1998 |
| Priority | JP183604 | 12.07.1996 |
| Application | JP120719968-183604 | |
| Applicant | NIPPON STEEL CORP. | |
| Inventor | OKA, MASA HARU/ SATO, NOAHARU/ SAKAMOTO, TOSHI HARU UND MITERFINDER | |
| Title | MARTENSITIC STAINLESS STEEL EXCELLENT IN HOT WORKABILITY | |
| | | |

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| Info | | |
| IPC | C22C03800 | |
| Composition nr. | 1 | Composite component - |
| Composition | [weight-%]: C : 0-0,05 * SI : 0-0,5 * MN : 0-1,5 * P : 0-0,03 * S : 0,002-0,008 * CR : 10-17 * NI : 4-7 * AL : 0-0,1 * N : 0-0,08 * MO : 1-3 * CU : 1-3 * TI : 0,001-0,05 * FE : REST * CA : 0-0,01 + REM : 0-0,03 | |
| Keywords | (english) | (german) |
| | CORROSION-RESISTING | KORROSIONSBEST |
| | HIGH-TEMPER-STRENGTH | WARMFEST |
| | MARTENSITE | MARTENSIT |
| | | |
| 68 | Deutsches Patent- und Markenamt DPMA | 12.11.2009 (16:41h) |
| Publication | DE69713446 T2 | 29.10.1997 |
| Priority | JP131428/96 | 26.04.1996 |
| Application | DE1804199797106468 | |
| Applicant | Denso Corp. | |
| Inventor | Sugiyama, Satoshi; Takenouchi, Syoichi; Tanimura, Yoshihiro und Miterf. | |
| Title | Verfahren zum spannungsinduzierten Umwandeln austenitischer rostfreier Stähle und Verfahren zum Herstellen zusammengesetzter magnetischer Teile | |
| Info | | |
| IPC | C21D008/12 | |
| Composition nr. | 1 | Composite component - |
| Composition | [weight-%]: C : 0-0,6 * CR : 12-19 * NI : 6-12 * MN : 0-2 * MO : 0-2 * NB : 0-1 * SI : 0-2 * AL : 0-0,5 * FE : REST | |
| Keywords | (english) | (german) |
| | AUSTENITE | AUSTENIT |
| | HEAT-TREATMENT | WÄRMEBEHANDLUNG |
| | MARTENSITE | MARTENSIT |
| | PLASTIC | PLASTISCH |
| | STRESS-CORROSION-RESIST | SPANNUNGSKORROSIONSBEST |
| | USE | VERWENDUNG |
| | | |
| 69 | Deutsches Patent- und Markenamt DPMA | 12.11.2009 (16:41h) |
| Publication | JP10001755 A | 06.01.1998 |
| Priority | JP92774 | 15.04.1996 |
| Application | JP161219968-336173 | |
| Applicant | NIPPON STEEL CORP. | |
| Inventor | HARA, TAKUYA/ ASAHI, HITOSHI/ KAWAKAMI, SATORU | |
| Title | MARTENSITIC STAINLESS STEEL EXCELLENT IN CORROSION RESISTANCE AND SULFIDE | |

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| | STRESS CORROSION CRACKING RESISTANCE AND ITS PRODUCTION | |
| Info | | |
| IPC | C22C03800 | |
| Composition nr. | 1 | Composite component - |
| Composition | [weight-%]: C : 0,005-0,05 * SI : 0,05-0,5 * MN : 0,1-1 * CR : 10-15 * NI : 4-9 * CU : 0,5-3 * MO : 1-3 * AL : 0,005-0,2 * N : 0,005-0,1 * P : 0-0,025 * S : 0-0,015 * FE : REST | |
| Keywords | (english) | (german) |
| | AUSTENITE | AUSTENIT |
| | CORROSION-RESISTING | KORROSIONSBEST |
| | MARTENSITE | MARTENSIT |
| | STRESS-CORROSION-RESIST | SPANNUNGSKORROSIONSBEST |
| | | |
| 70 | Deutsches Patent- und Markenamt DPMA | 12.11.2009 (16:41h) |
| Publication | EP798394 A | 01.10.1997 |
| Priority | JP71819 | 27.03.1996 |
| Application | EP2603199797105131 | |
| Applicant | KAWASAKI STEEL CORPORATION | |
| Inventor | KIMURA, MITSUO / MIYATA, YUKIO / KOSEKI, TOMOYA UND MITERFINDER | |
| Title | MARTENSITIC STEEL FOR LINE PIPE HAVING EXCELLENT CORROSION RESISTANCE AND WELDABILITY | |
| Info | C+MO+0,1.N+3.CU-3.C >= 12,2; CR+3,5.MO+10.N+0,2.NI-20.C >= 14,5 | |
| IPC | C22C03800 | |
| Composition nr. | 1 | Composite component - |
| Composition | [weight-%]: C : 0-0,02 * SI : 0-0,5 * MN : 0,2-3 * CR : 10-14 * NI : 0,2-7 * MO : 0,2-5 * AL : 0-0,1 * N : 0-0,07 * NB + V : 0-0,2 * FE : REST | |
| Keywords | (english) | (german) |
| | CORROSION-RESISTING | KORROSIONSBEST |
| | MARTENSITE | MARTENSIT |
| | USE | VERWENDUNG |
| | WELDABLE | SCHWEISSBAR |
| | | |
| 71 | Deutsches Patent- und Markenamt DPMA | 12.11.2009 (16:41h) |
| Publication | EP798394 A | 01.10.1997 |
| Priority | JP71819 | 27.03.1996 |
| Application | EP2603199797105131 | |
| Applicant | KAWASAKI STEEL CORPORATION | |
| Inventor | KIMURA, MITSUO / MIYATA, YUKIO / KOSEKI, TOMOYA UND MITERFINDER | |
| Title | MARTENSITIC STEEL FOR LINE PIPE HAVING EXCELLENT CORROSION RESISTANCE AND WELDABILITY | |

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|-----------------|--|-----------------------|
| Info | C+MO+0,1.N+3.CU-3.C >= 12,2; 150.C+100.N-NI-MN <= 4; CR+3,5.MO+10.N+0,2.NI-20.C >= 14,5 | |
| IPC | C22C03800 | |
| Composition nr. | 2 | Composite component - |
| Composition | [weight-%]: C : 0-0,02 * SI : 0-0,5 * MN : 0,2-3 * CR : 10-14 * NI : 0,2-7 * MO : 0,2-5 * AL : 0-0,1 * N : 0-0,07 * NB + V : 0-0,2 * CU : 0-2 * TI : 0-0,15 * ZR : 0-0,15 * TA : 0-0,15 * CA : 0-0,006 * FE : REST | |
| Keywords | (english) | (german) |
| | CORROSION-RESISTING | KORROSIONSBEST |
| | MARTENSITE | MARTENSIT |
| | USE | VERWENDUNG |
| | WELDABLE | SCHWEISSBAR |
| | | |
| 72 | Deutsches Patent- und Markenamt DPMA | 12.11.2009 (16:41h) |
| Publication | JP09256115 A | 30.09.1997 |
| Priority | JP61366 | 18.03.1996 |
| Application | JP180319968-61366 | |
| Applicant | NIPPON STEEL CORP. | |
| Inventor | ASAHI, HITOSHI/ TAMEHIRO, HIROSHI/ MURAKI, TARO UND MITERFINDER | |
| Title | MARTENSITIC STAINLESS STEEL, EXCELLENT IN SOUR RESISTANCE AND HAVING SUPERIOR WELDABILITY, AND ITS PRODUCTION | |
| Info | | |
| IPC | C22C03800 | |
| Composition nr. | 1 | Composite component - |
| Composition | [weight-%]: C : 0-0,035 * SI : 0-0,5 * MN : 0,1-1,5 * P : 0-0,03 * S : 0-0,005 * CR : 9-13 * NI : 1,5-6 * CU : 0,3-1,8 * MO : 1,5-2,5 * AL : 0-0,06 * N : 0-0,02 * FE : REST | |
| Keywords | (english) | (german) |
| | AUSTENITE | AUSTENIT |
| | CORROSION-RESISTING | KORROSIONSBEST |
| | HEAT-TREATMENT | WÄRMEBEHANDLUNG |
| | MARTENSITE | MARTENSIT |
| | TENSILE-STRENGTH | ZUGFEST |
| | WELDABLE | SCHWEISSBAR |
| | | |
| 73 | Deutsches Patent- und Markenamt DPMA | 12.11.2009 (16:41h) |
| Publication | JP09291344 A | 11.11.1997 |
| Priority | JP38547 | 26.02.1996 |
| Application | JP220519968-127129 | |
| Applicant | NIPPON STEEL CORP. | |
| Inventor | OKA, MASAHARU/ SAKAMOTO, TOSHIHARU | |

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|-----------------|--|-----------------------|
| Title | LOW HARDNESS MARTENSITIC STAINLESS STEEL | |
| Info | C+N+0,017.NI+0,015.MO < 0,15 | |
| IPC | C22C03800 | |
| Composition nr. | 1 | Composite component - |
| Composition | [weight-%]: C : 0-0,025 * SI : 0-0,5 * MN : 0-1,5 * P : 0-0,03 * S : 0-0,01 * CR : 11-17 * NI : 4,5-7 * AL : 0-0,06 * N : 0-0,025 * MO : 1-3 * CA : 0-0,02 * CU : 0-3 * FE : REST | |
| Keywords | (english) | (german) |
| | HARD | HART |
| | MARTENSITE | MARTENSIT |
| | USE | VERWENDUNG |
| | | |
| 74 | Deutsches Patent- und Markenamt DPMA | 12.11.2009 (16:41h) |
| Publication | JP09227934 A | 02.09.1997 |
| Priority | JP32491 | 20.02.1996 |
| Application | JP200219968-32491 | |
| Applicant | NIPPON STEEL CORP. | |
| Inventor | MURAKI, TARO/ ASAHI, HITOSHI/ TAMEHIRO, HIROSHI UND MITERFINDER | |
| Title | MANUFACTURE OF MARTENSITIC STAINLESS STEEL EXCELLENT IN LOW TEMPERATURE TOUGHNESS | |
| Info | 40C+34N+NI+0,3CU-1,1CR-1,8MO > -11 | |
| IPC | C22C03800 | |
| Composition nr. | 1 | Composite component - |
| Composition | [weight-%]: C : 0,001-0,05 * SI : 0-1 * MN : 0-2 * S : 0-0,01 * P : 0-0,025 * AL : 0-0,08 * N : 0-0,015 * CR : 7-15 * NI : 1-5 * TI : 0,005-0,03 * FE : REST | |
| Keywords | (english) | (german) |
| | HEAT-TREATMENT | WÄRMEBEHANDLUNG |
| | MARTENSITE | MARTENSIT |
| | TENSILE-STRENGTH | ZUGFEST |
| | TOUGH | ZÄH |
| | USE | VERWENDUNG |
| | WELDABLE | SCHWEISSBAR |
| | | |
| 75 | Deutsches Patent- und Markenamt DPMA | 12.11.2009 (16:41h) |
| Publication | JP09268349 A | 14.10.1997 |
| Priority | JP33149 | 29.01.1996 |
| Application | JP250419968-127697 | |
| Applicant | NIPPON STEEL CORP. | |
| Inventor | SHIGESATO, GENICHI/ ASAHI, HITOSHI/ HARA, TAKUYA UND MITERFINDER | |
| | MARTENSITIC STAINLESS STEEL EXCELLENT IN SULFIDE STRESS CRACKING | |

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| Title | RESISTANCE | |
| Info | | |
| IPC | C22C03800 | |
| Composition nr. | 1 | Composite component - |
| Composition | [weight-%]: C : 0,005-0,05 * SI : 0,05-0,5 * MN : 0,1-1 * P : 0-0,025 * S : 0-0,015 * CR : 10-15 * NI : 3-6 * MO : 0,5-3 * AL : 0,005-0,2 * N : 0,005-0,1 * FE : REST * CU : 0-3 | |
| Keywords | (english) | (german) |
| | CORROSION-RESISTING | KORROSIONSBEST |
| | MARTENSITE | MARTENSIT |
| | STRESS-CORROSION-RESIST | SPANNUNGSKORROSIONSBEST |
| | | |
| 76 | Deutsches Patent- und Markenamt DPMA | 12.11.2009 (16:41h) |
| Publication | DE69628190 T2 | 03.04.1997 |
| Priority | JP249661/95 | 27.09.1995 |
| Application | DE2709199669628190 | |
| Applicant | Sumitomo Metal Industries, Ltd. | |
| Inventor | Ueda, Masakatsu; Ogawa, Kazuhiro; Kondo, Kunio und Miterf. | |
| Title | Hochfeste, geschweisste Stahlstrukturen mit hervorragendem Korrosionswiderstand | |
| Info | | |
| IPC | C22C038/00 | |
| Composition nr. | 1 | Composite component - |
| Composition | [weight-%]: C : 0,001-0,05 * SI : 0-1 * MN : 0-5 * CR : 9-14 * NI : 4,5-7 * AL : 0,001-0,2 * MO : 0-4 * CU : 0-3 * W : 0-5 * TI : 0-0,2 * NB : 0-0,2 * ZR : 0-0,2 * CA : 0-0,01 * B : 0-0,01 * P : 0-0,03 * S : 0-0,01 * FE : REST | |
| Keywords | (english) | (german) |
| | AUSTENITE | AUSTENIT |
| | CORROSION-RESISTING | KORROSIONSBEST |
| | HEAT-TREATMENT | WÄRMEBEHANDLUNG |
| | MARTENSITE | MARTENSIT |
| | STRESS-CORROSION-RESIST | SPANNUNGSKORROSIONSBEST |
| | TENSILE-STRENGTH | ZUGFEST |
| | USE | VERWENDUNG |
| | WELDABLE | SCHWEISSBAR |
| | | |
| 77 | Deutsches Patent- und Markenamt DPMA | 12.11.2009 (16:41h) |
| Publication | EP864663 A | 16.09.1998 |
| Priority | JP249661 | 27.09.1995 |

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| Application | EP2709199696932043 | |
| Applicant | SUMITOMO METAL INDUSTRIES LTD. | |
| Inventor | UEDA, MASAKATSU/ OGAWA, KAZUHIRO/ KONDO, KUNIO UND MITERFINDER | |
| Title | HIGH-STRENGTH WELDED STEEL STRUCTURES HAVING EXCELLENT CORROSION RESISTANCE | |
| Info | | |
| IPC | C22C03800 | |
| Composition nr. | 1 | Composite component - |
| Composition | [weight-%]: C : 0,001-0,05 * CR : 9-14 * SI : 0-1 * MN : 0-5 * NI : 0,5-7 * AL : 0,001-0,2 * MO : 0-4 * CU : 0-3 * W : 0-5 * TI : 0-0,2 * NB : 0-0,2 * ZR : 0-0,2 * CA : 0-0,01 * B : 0-0,01 * FE : REST * P : 0-0,03 * S : 0-0,01 | |
| Keywords | (english) | (german) |
| | CORROSION-RESISTING | KORROSIONSBEST |
| | HARD | HART |
| | MARTENSITE | MARTENSIT |
| | STRESS-CORROSION-RESIST | SPANNUNGSKORROSIONSBEST |
| | TENSILE-STRENGTH | ZUGFEST |
| | WELDABLE | SCHWEISSBAR |
| | | |
| 78 | Deutsches Patent- und Markenamt DPMA | 12.11.2009 (16:41h) |
| Publication | WO9712072 A | 03.04.1997 |
| Priority | JP249661 | 27.09.1995 |
| Application | WO27091996JP96/02834 | |
| Applicant | SUMITOMO METAL INDUSTRIES, LTD | |
| Inventor | UEDA, MASAKATSU / OGAWA, KAZUHIRO / KONDO, KUNIO UND MITERFINDER | |
| Title | HIGH-STRENGTH WELDED STEEL STRUCTURES HAVING EXCELLENT CORROSION RESISTANCE | |
| Info | | |
| IPC | C22C03800 | |
| Composition nr. | 1 | Composite component - |
| Composition | [weight-%]: C : 0-0,03 * SI : 0-1 * MN : 0-2 * P : 0-0,02 * S : 0-0,01 * AL : 0-0,1 * CR : 9-14 * NI : 7-11 * MO : 1,5-5 * CU : 0-2 * N : 0-0,4 * W : 0-3,5 * TI : 0-0,15 * NB : 0-0,15 * ZR : 0-0,15 * CA : 0-0,01 * B : 0-0,01 * FE : REST | |
| Keywords | (english) | (german) |
| | AUSTENITE | AUSTENIT |
| | CORROSION-RESISTING | KORROSIONSBEST |
| | FERRITE | FERRIT |
| | HARD | HART |
| | HEAT-TREATMENT | WÄRMEBEHANDLUNG |

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| | MARTENSITE | MARTENSIT |
| | STRESS-CORROSION-RESIST | SPANNUNGSKORROSIONSBEST |
| | TENSILE-STRENGTH | ZUGFEST |
| | USE | VERWENDUNG |
| | WELDABLE | SCHWEISSBAR |
| | | |
| 79 | <i>Deutsches Patent- und Markenamt DPMA</i> | <i>12.11.2009 (16:41h)</i> |
| Publication | WO9712072 A | 03.04.1997 |
| Priority | JP249661 | 27.09.1995 |
| Application | WO27091996JP96/02834 | |
| Applicant | SUMITOMO METAL INDUSTRIES, LTD | |
| Inventor | UEDA, MASAKATSU / OGAWA, KAZUHIRO / KONDO, KUNIO UND MITERFINDER | |
| Title | HIGH-STRENGTH WELDED STEEL STRUCTURES HAVING EXCELLENT CORROSION RESISTANCE | |
| Info | | |
| IPC | C22C03800 | |
| Composition nr. | 2 | Composite component - |
| Composition | [weight-%]: C : 0,001-0,05 * SI : 0-1 * MN : 0-5 * P : 0-0,03 * S : 0-0,01 * AL : 0-0,2 * CR : 9-14 * NI : 0-7 * MO : 0-4 * CU : 0-3 * W : 0-5 * TI : 0-0,2 * NB : 0-0,2 * ZR : 0-0,2 * CA : 0-0,01 * B : 0-0,01 * FE : REST | |
| Keywords | (english) | (german) |
| | CORROSION-RESISTING | KORROSIONSBEST |
| | FERRITE | FERRIT |
| | HARD | HART |
| | HEAT-TREATMENT | WÄRMEBEHANDLUNG |
| | MARTENSITE | MARTENSIT |
| | STRESS-CORROSION-RESIST | SPANNUNGSKORROSIONSBEST |
| | TENSILE-STRENGTH | ZUGFEST |
| | USE | VERWENDUNG |
| | WELDABLE | SCHWEISSBAR |
| | | |
| 80 | <i>Deutsches Patent- und Markenamt DPMA</i> | <i>12.11.2009 (16:41h)</i> |
| Publication | JP09041092 A | 10.02.1997 |
| Priority | JP7191928 | 27.07.1995 |
| Application | JP270719957191928 | |
| Applicant | NIPPON STEEL CORP | |
| Inventor | ASAHI, HITOSHI/ MURAKI, TARO/ TAMEHIRO, HIROSHI | |
| Title | HIGH CORROSION RESISTANCE MARTENSITIC STAINLESS STEEL REDUCED IN HARDNESS IN WELD ZONE | |

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| Info | | |
| IPC | C22C03800 | |
| Composition nr. | 1 | Composite component - |
| Composition | [weight-%]: C : 0-0,005 * SI : 0-0,5 * MN : 0,1-1 * P : 0-0,03 * S : 0-0,005 * CR : 9-13 * NI : 1,5-5 * AL : 0-0,06 * N : 0-0,008 * FE : REST * MO : 0-2 * TI : 0-0,1 + ZR : 0-0,2 * CA : 0-0,02 + SELT ERD : 0-0,1 | |
| Keywords | (english) | (german) |
| | AUSTENITE | AUSTENIT |
| | CORROSION-RESISTING | KORROSIONSBEST |
| | HARD | HART |
| | HEAT-TREATMENT | WÄRMEBEHANDLUNG |
| | MARTENSITE | MARTENSIT |
| | WELDABLE | SCHWEISSBAR |
| | | |
| 81 | Deutsches Patent- und Markenamt DPMA | 12.11.2009 (16:41h) |
| Publication | JP08246107 A | 24.09.1996 |
| Priority | JP51599 | 10.03.1995 |
| Application | JP100319957-51599 | |
| Applicant | NIPPON STEEL CORP. | |
| Inventor | HARA, TAKUYA/ ASAHI, HITOSHI | |
| Title | MARTENSITIC STAINLESS STEEL EXCELLENT IN CARBON DIOXIDE CORROSION RESISTANCE AND SULFIDE STRESS CORROSION CRACKING RESISTANCE | |
| Info | | |
| IPC | C22C03800 | |
| Composition nr. | 1 | Composite component - |
| Composition | [weight-%]: C : 0,005-0,05 * SI : 0,05-0,5 * MN : 0,1-1 * CR : 12-15 * NI : 4,5-9 * CU : 1-3 * MO : 2-3 * W : 0,1-3 * AL : 0,005-0,2 * N : 0,005-0,1 * P : 0-0,25 * S : 0-0,015 * FE : REST * CO : 0-3 | |
| Keywords | (english) | (german) |
| | CORROSION-RESISTING | KORROSIONSBEST |
| | MARTENSITE | MARTENSIT |
| | STRESS-CORROSION-RESIST | SPANNUNGSKORROSIONSBEST |
| | | |
| 82 | Deutsches Patent- und Markenamt DPMA | 12.11.2009 (16:41h) |
| Publication | US5716465 A | 11.04.1996 |
| Priority | JP237918 | 30.09.1994 |
| Application | WO27091995JP95/01950 | |
| Applicant | NIPPON STEEL CORP. | |
| Inventor | HARA, TAKUYA/ HITOSHI, ASAHI/ TAMEHIRO, HIROSHI UND MITERFINDER | |

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| Title | HIGH-CORROSION-RESISTANT MARTENSITIC STAINLESS STEEL HAVING EXCELLENT WELDABILITY AND PROCESS FOR PRODUCING THE SAME | |
| Info | | |
| IPC | C22C03842 | |
| Composition nr. | 1 | Composite component - |
| Composition | [weight-%]: C : 0,005-0,035 * SI : 0-0,5 * MN : 0,1-1 * S : 0-0,005 * P : 0-0,03 * CR : 8-13,5 * CU : 1-4 * NI : 1,5-5 * AL : 0-0,06 * N : 0-0,01 * FE : REST * TI : 0-0,1 * MO : 0-3 * ZR : 0-0,2 * CA : 0-0,02 + REM : 0-0,4 | |
| Keywords | (english) | (german) |
| | AUSTENITE | AUSTENIT |
| | CORROSION-RESISTING | KORROSIONSBEST |
| | HARD | HART |
| | HEAT-TREATMENT | WÄRMEBEHANDLUNG |
| | MARTENSITE | MARTENSIT |
| | PRECIPITATION-HARDENING | AUSSCHIEDUNGSH |
| | PRODUCTION | HERSTELLUNG |
| | STRESS-CORROSION-RESIST | SPANNUNGSKORROSIONSBEST |
| | WELDABLE | SCHWEISSBAR |
| | | |
| 83 | Deutsches Patent- und Markenamt DPMA | 12.11.2009 (16:41h) |
| Publication | WO9610654 A | 11.04.1996 |
| Priority | JP237918 | 30.09.1994 |
| Application | WO27091995JP95/01950 | |
| Applicant | NIPPON STEEL CORP. | |
| Inventor | HARA, TAKUYA/ ASAHI, HITOSHI/ TAMEHIRO, HIROSHI UND MITERFINDER | |
| Title | HIGHLY CORROSION-RESISTANT MARTENSITIC STAINLESS STEEL WITH EXCELLENT WELDABILITY AND PROCESS FOR PRODUCING THE SAME | |
| Info | | |
| IPC | C22C03842 | |
| Composition nr. | 1 | Composite component - |
| Composition | [weight-%]: C : 0,005-0,035 * SI : 0-0,5 * MN : 0,1-1 * P : 0-0,03 * S : 0-0,005 * MO : 1-3 * CR : 6,4-12 * CU : 1-4 * NI : 1,5-5 * AL : 0-0,06 * N : 0-0,01 * TI : 0-0,1 + ZR : 0-0,2 + CA : 0-0,02 + SELTERD : 0-0,4 * FE : REST | |
| Keywords | (english) | (german) |
| | AUSTENITE | AUSTENIT |
| | CORROSION-RESISTING | KORROSIONSBEST |
| | HEAT-TREATMENT | WÄRMEBEHANDLUNG |
| | MARTENSITE | MARTENSIT |
| | PRODUCTION | HERSTELLUNG |
| | STRESS-CORROSION-RESIST | SPANNUNGSKORROSIONSBEST |
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| | WELDABLE | SCHWEISSBAR |
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| 84 | <i>Deutsches Patent- und Markenamt DPMA</i> | <i>12.11.2009 (16:41h)</i> |
| Publication | JP08120345 AA | 14.05.1996 |
| Priority | JP6-198610 | 23.08.1994 |
| Application | JP310319957-76851 | |
| Applicant | Nippon Steel Corp. | |
| Inventor | Kawakami, Satoru; Takahashi, Akihiko; Asahi, Hitoshi | |
| Title | Production of martensitic stainless steel seamless tube excellent in corrosion resistance | |
| Info | | |
| IPC | C21D009/08 | |
| Composition nr. | 1 | Composite component - |
| Composition | [weight-%]: C : 0,005-0,05 * SI : 0-0,5 * CR : 11-17 * NI : 2,4-6 * CU : 0,2-4 * MO : 0,5-3 * N : 0,01-0,1 * MN + P + S + AL : 0-0,33 * FE : REST | |
| Keywords | (english) | (german) |
| | CORROSION-RESISTING | KORROSIONSBEST |
| | HEAT-TREATMENT | WÄRMEBEHANDLUNG |
| | MARTENSITE | MARTENSIT |
| | PRODUCTION | HERSTELLUNG |
| | STRESS-CORROSION-RESIST | SPANNUNGSKORROSIONSBEST |
| | | |
| 85 | <i>Deutsches Patent- und Markenamt DPMA</i> | <i>12.11.2009 (16:41h)</i> |
| Publication | JP08041599 A | 13.02.1996 |
| Priority | JP194755 | 26.07.1994 |
| Application | JP2607199406194755 | |
| Applicant | SUMITOMO METAL IND LTD. | |
| Inventor | MORI, YUUKI/ UEDA, MASAKATSU/ KONDO, KUNIO UND MITERFINDER | |
| Title | MARTENSITIC STAINLESS STEEL EXCELLENT IN CORROSION RESISTANCE IN WELD ZONE | |
| Info | CR+MO > 11 30C+NI-1,1CR-1,1MO > 10,5 | |
| IPC | C22C03800 | |
| Composition nr. | 1 | Composite component - |
| Composition | [weight-%]: C : 0-0,009 * SI : 0-1 * MN : 0-1 * P : 0-0,04 * S : 0-0,005 * CR : 9-15 * NI : 4-8 * MO : 1,5-7 * AL : 0,001-0,1 * N : 0-0,1 * FE : REST | |
| Keywords | (english) | (german) |
| | CORROSION-RESISTING | KORROSIONSBEST |
| | MARTENSITE | MARTENSIT |
| | TOUGH | ZÄH |
| | USE | VERWENDUNG |
| | | |

| | WELDABLE | SCHWEISSBAR |
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| | | |
| 86 | Deutsches Patent- und Markenamt DPMA | 12.11.2009 (16:41h) |
| Publication | US5820699 A | 08.02.1996 |
| Priority | JP169467 | 21.07.1994 |
| Application | WO21071995JP95/01453 | |
| Applicant | NIPPON STEEL CORP. | |
| Inventor | ASAHI, HITOSHI/ HARA, TAKUYA/ KAWAKAMI, AKIRA | |
| Title | MARTENSITIC STAINLESS STEEL HAVING EXCELLENT HOT WORKABILITY AND SULFIDE STRESS CRACKING RESISTANCE | |
| Info | CR+1,6.MO >= 13; 40.C +34.N +NI +0,3.CU -1,1.CR -1,8.MO >= 10,5 | |
| IPC | C22C03842 | |
| Composition nr. | 1 | Composite component - |
| Composition | [weight-%]: C : 0,005-0,05 * SI : 0-0,5 * MN : 0,1-1 * P : 0-0,03 * S : 0-0,005 * N : 0-0,046 * CR : 11,01-16,666 * MO : 1-3 * CU : 1-4 * NI : 5-8 * AL : 0-0,06 * TI : 0-0,1 * ZR : 0-0,2 * CA : 0-0,02 * REM : 0-0,4 * FE : REST | |
| Keywords | (english) | (german) |
| | CORROSION-RESISTING | KORROSIONSBEST |
| | HEAT-TREATMENT | WÄRMEBEHANDLUNG |
| | MARTENSITE | MARTENSIT |
| | STRESS-CORROSION-RESIST | SPANNUNGSKORROSIONSBEST |
| | TENSILE-STRENGTH | ZUGFEST |
| | USE | VERWENDUNG |
| | | |
| 87 | Deutsches Patent- und Markenamt DPMA | 12.11.2009 (16:41h) |
| Publication | WO9603532 A | 08.02.1996 |
| Priority | JP169467 | 21.07.1994 |
| Application | WO21071995JP95/01453 | |
| Applicant | NIPPON STEEL CORP. | |
| Inventor | ASAHI, HITOSHI/ HARA, TAKUYA/ KAWAKAMI, AKIRA | |
| Title | MARTENSITIC STAINLESS STEEL HAVING EXCELLENT HOT WORKABILITY AND SULFIDE STRESS CRACKING RESISTANCE | |
| Info | | |
| IPC | C22C03844 | |
| Composition nr. | 1 | Composite component - |
| Composition | [weight-%]: C : 0,005-0,05 * SI : 0-0,5 * MN : 0,1-1 * P : 0-0,03 * S : 0-0,005 * MO : 1-3 * CU : 1-4 * NI : 5-8 * AL : 0-0,06 * CR : 11,5-13,1 * TI : 0-0,1 + ZR : 0-0,2 * CA : 0-0,02 + SELTERD : | |

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| | 0-0,4 * FE : REST * N : 0-0,043 | |
| Keywords | (english) | (german) |
| | CORROSION-RESISTING | KORROSIONSBEST |
| | HEAT-TREATMENT | WÄRMEBEHANDLUNG |
| | MARTENSITE | MARTENSIT |
| | PRODUCTION | HERSTELLUNG |
| | STRESS-CORROSION-RESIST | SPANNUNGSKORROSIONSBEST |
| | TENSILE-STRENGTH | ZUGFEST |
| | | |
| 88 | Deutsches Patent- und Markenamt DPMA | 12.11.2009 (16:41h) |
| Publication | US5820703 A | 13.10.1998 |
| Priority | JP156494 | 16.06.1994 |
| Application | US13121996750758 | |
| Applicant | NIPPON STEEL CORP. | |
| Inventor | SUZUKI, YASUSHI/ OBATA, MASAOKI/ MIYASAKA, AKIHIRO | |
| Title | PRODUCTION METHOD OF STEEL PIPE EXCELLENT IN CORROSION RESISTANCE AND WELDABILITY | |
| Info | | |
| IPC | C21D00810 | |
| Composition nr. | 1 | Composite component - |
| Composition | [weight-%]: SI : 0,01-1,2 * MN : 0,02-3 * CR : 7,5-14 * AL : 0,005-0,5 * C : 0-0,03 * N : 0-0,02 * P : 0-0,03 * S : 0-0,01 * CU : 0-4 + NI : 0-4 + CO : 0-2 + MO : 0-3 + W : 0-3 + FE : REST * NB + V + TI : 0-1 * REM : 0-0,05 * CA : 0-0,03 | |
| Keywords | (english) | (german) |
| | CORROSION-RESISTING | KORROSIONSBEST |
| | HEAT-TREATMENT | WÄRMEBEHANDLUNG |
| | MARTENSITE | MARTENSIT |
| | PRODUCTION | HERSTELLUNG |
| | WELDABLE | SCHWEISSBAR |
| | | |
| 89 | Deutsches Patent- und Markenamt DPMA | 12.11.2009 (16:41h) |
| Publication | JP07185879 A | 25.07.1995 |
| Priority | JP345812 | 24.12.1993 |
| Application | JP241219935-345812 | |
| Applicant | NIPPON STEEL CORP. | |
| Inventor | TANAKA, TAKSHI/ SAKURAI, HIDEO/ INOUE, HIROSHIGE UND MITERFINDER | |
| Title | ELECTRODE WITH FOR HIGH-STRENGTH, HIGHLY CORROSION RESISTANT MARTENSITIC STAINLESS STEEL | |
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| Info | | |
| IPC | B23K03530 | |
| Composition nr. | 1 | Composite component - |
| Composition | [weight-%]: C : 0,01-0,04 * SI : 0,01-0,5 * MN : 0,1-2 * CR : 11-15 * NI : 3,5-7 * MO : 0,7-3 * NB : 0,01-0,2 * V : 0-0,5 * AL : 0-0,03 * FE : REST | |
| Keywords | (english) | (german) |
| | CORROSION-RESISTING | KORROSIONSBEST |
| | ELECTRODE | ELEKTRODE |
| | FILLER-MATERIAL | SCHWEISSZUSATZW |
| | MARTENSITE | MARTENSIT |
| | TENSILE-STRENGTH | ZUGFEST |
| | USE | VERWENDUNG |
| | WIRE | DRAHT |
| | | |
| 90 | Deutsches Patent- und Markenamt DPMA | 12.11.2009 (16:41h) |
| Publication | WO9513405 A | 18.05.1995 |
| Priority | JP306105 | 12.11.1993 |
| Application | WO10111994JP94/01894 | |
| Applicant | NISSHIN STEEL CO.,LTD. | |
| Inventor | MIYAKUSU, KATSUHISA / ODA, YUKIO / IGAWA, TAKASHI | |
| Title | HIGH-STRENGTH HIGH-DUCTILITY TWO-PHASE STAINLESS STEEL AND PROCESS FOR PRODUCING THE SAME | |
| Info | | |
| IPC | C22C03840 | |
| Composition nr. | 1 | Composite component - |
| Composition | [weight-%]: C : 0-0,1 * SI : 0-2 * MN : 0-4 * P : 0-0,04 * S : 0-0,01 * NI : 0-4 * CR : 10-20 * N : 0-0,12 * O : 0-0,02 * CU : 0-4 * AL : 0-0,02 * MO : 0-3 * SE : 0-0,2 * Y : 0-0,2 * CA : 0-0,1 * MG : 0-0,1 * FE : REST | |
| Keywords | (english) | (german) |
| | CORROSION-RESISTING | KORROSIONSBEST |
| | FERRITE | FERRIT |
| | HARD | HART |
| | MARTENSITE | MARTENSIT |
| | PLASTIC | PLASTISCH |
| | PRODUCTION | HERSTELLUNG |
| | TENSILE-STRENGTH | ZUGFEST |
| | | |
| 91 | Deutsches Patent- und Markenamt DPMA | 12.11.2009 (16:41h) |
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|-----------------|---|-----------------------|
| Publication | EP646653 A | 05.04.1995 |
| Priority | US132008 | 05.10.1993 |
| Application | EP2609199494115129.2 | |
| Applicant | UNITED STATES SURGICAL CORP. | |
| Inventor | RIZK, SAID/ POWERS, WILLIAM/ SAMSEL, SCOTT | |
| Title | HEAT TREATED STAINLESS STEEL NEEDLES AND METHODS OF MAKING SAME | |
| Info | | |
| IPC | C21D00926 | |
| Composition nr. | 1 | Composite component - |
| Composition | [weight-%]: CR : 10-17 * NI : 4-11 * TI : 0-1,6 * MO : 0-6 * CU : 0-4 * CO : 0-6 * AL : 0-1,1 * NB + TA : 0-0,6 * C + N : 0-0,07 * SI : 0-1 * MN : 0-0,6 * P : 0-0,2 * S : 0-0,04 * FE : REST | |
| Keywords | (english) | (german) |
| | HEAT-TREATMENT | WÄRMEBEHANDLUNG |
| | MARTENSITE | MARTENSIT |
| | PRECIPITATION-HARDENING | AUSSCHIEDUNGSH |
| | SURFACE | OBERFLÄCHE |
| | TENSILE-STRENGTH | ZUGFEST |
| | USE | VERWENDUNG |
| | WIRE | DRAHT |
| | | |
| 92 | Deutsches Patent- und Markenamt DPMA | 12.11.2009 (16:41h) |
| Publication | JP07011391 A | 13.01.1995 |
| Priority | JP5157464 | 28.06.1993 |
| Application | JP2806199305157464 | |
| Applicant | NISSHIN STEEL CO. LTD. | |
| Inventor | HIROTSU, SADAOKI/ OHASHI, SEIICHI | |
| Title | HIGH STRENGTH MARTENSITIC STAINLESS STEEL EXCELLENT IN TOUGHNESS | |
| Info | | |
| IPC | C22C03800 | |
| Composition nr. | 1 | Composite component - |
| Composition | [weight-%]: C : 0-0,08 * SI : 0,5-2 * MN : 0-3 * NI : 6-10 * CR : 12-16 * CU : 0-0,5 * MO : 1-3 * CO : 3-6 * TI : 0,15-0,7 * N : 0-0,015 * S : 0-0,003 * AL : 0-0,3 * FE : REST | |
| Keywords | (english) | (german) |
| | CORROSION-RESISTING | KORROSIONSBEST |
| | MARTENSITE | MARTENSIT |
| | PRECIPITATION-HARDENING | AUSSCHIEDUNGSH |
| | TENSILE-STRENGTH | ZUGFEST |
| | TOUGH | ZÄH |
| | | |

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| 93 | <i>Deutsches Patent- und Markenamt DPMA</i> | <i>12.11.2009 (16:41h)</i> |
| Publication | JP06306551 A | 01.11.1994 |
| Priority | JP5103335 | 28.04.1993 |
| Application | JP2804199305103335 | |
| Applicant | NIPPON STEEL CORP. | |
| Inventor | TENTO, MASAYUKI/ TADOKORO, YUTAKA/ SATO, YUICHI UND MITERFINDER | |
| Title | HIGH STRENGTH MARTENSITIC STAINLESS STEEL AND ITS PRODUCTION | |
| Info | | |
| IPC | C22C03800 | |
| Composition nr. | 1 | Composite component - |
| Composition | [weight-%]: C : 0-0,029 * SI : 0-0,98 * MN : 0-1,98 * CR : 11-17 * NI : 3,5-7 * N : 0-0,019 * AL : 0,001-0,05 + CA : 0,0005-0,005 * MO : 0-0,4 * NB : 0-0,5 * FE : REST | |
| Keywords | (english) | (german) |
| | CORROSION-RESISTING | KORROSIONSBEST |
| | HEAT-TREATMENT | WÄRMEBEHANDLUNG |
| | MARTENSITE | MARTENSIT |
| | TENSILE-STRENGTH | ZUGFEST |
| | TOUGH | ZÄH |
| | WELDABLE | SCHWEISSBAR |
| | | |
| 94 | <i>Deutsches Patent- und Markenamt DPMA</i> | <i>12.11.2009 (16:41h)</i> |
| Publication | FR2700174 A | 08.07.1994 |
| Priority | FR9300204 | 07.01.1993 |
| Application | FR070119939300204 | |
| Applicant | JACQUES GERARD | |
| Inventor | GERARD, JACQUES | |
| Title | MATERIAUX ET PROCEDES POUR LA REALISATION DE STRUCTURES PORTEUSES, ET DE LEURS ACCESSOIRES, A HAUTES CARACTERISTIQUES MACANIQUES ET CORROSION, NOTAMMENT DANS LE DOMAINE DU CYCLE | |
| Info | | |
| IPC | C22C03844 | |
| Composition nr. | 1 | Composite component - |
| Composition | [weight-%]: C : 0,005-0,35 * SI : 0,1-1,5 * MN : 0,1-9 * AL : 0,1-2 * N : 0,005-0,5 * NB : 0,005-1 * TA : 0,005-1 * TI : 0,005-2 * CR : 12-27 * NI : 0,1-20 * MO : 0,1-5 * FE : REST | |
| Keywords | (english) | (german) |
| | AUSTENITE | AUSTENIT |
| | CORROSION-RESISTING | KORROSIONSBEST |
| | FERRITE | FERRIT |

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| | HEAT-TREATMENT | WÄRMEBEHANDLUNG |
| | MARTENSITE | MARTENSIT |
| | USE | VERWENDUNG |
| | WIRE | DRAHT |
| | | |
| 95 | Deutsches Patent- und Markenamt DPMA | 12.11.2009 (16:41h) |
| Publication | JP06136490 A | 17.05.1994 |
| Priority | JP291830 | 29.10.1992 |
| Application | JP291019924-291830 | |
| Applicant | NIPPON STEEL CORP | |
| Inventor | HARA, TAKUYA | |
| Title | PRODUCTION OF MARTENSITIC STAINLESS STEEL EXCELLENT IN CORROSION RESISTANCE | |
| Info | | |
| IPC | C22C03858 | |
| Composition nr. | 1 | Composite component - |
| Composition | [weight-%]: C : 0-0,1 * SI : 0-1 * MN : 0-2 * P : 0-0,025 * S : 0-0,015 * CR : 8-14 * NI : 0-4 * CU : 1,2-5 * AL : 0,005-0,2 * N : 0-0,015 * FE : REST | |
| Keywords | (english) | (german) |
| | CORROSION-RESISTING | KORROSIONSBEST |
| | HEAT-TREATMENT | WÄRMEBEHANDLUNG |
| | MARTENSITE | MARTENSIT |
| | | |
| 96 | Deutsches Patent- und Markenamt DPMA | 12.11.2009 (16:41h) |
| Publication | JP06128694 A | 10.05.1994 |
| Priority | JP274621 | 13.10.1992 |
| Application | JP131019924-274621 | |
| Applicant | NIPPON STEEL CORP | |
| Inventor | HARA, TAKUYA | |
| Title | MARTENITIC STAINLESS STEEL EXCELLENT IN CORROSION RESISTANCE | |
| Info | | |
| IPC | C22C03800 | |
| Composition nr. | 1 | Composite component - |
| Composition | [weight-%]: C : 0-0,1 * SI : 0-1 * MN : 0-2 * P : 0-0,025 * S : 0-0,15 * CR : 14-18 * NI : 0-6 * CU : 1-5 * AL : 0,005-0,2 * N : 0-0,1 * FE : REST | |
| Keywords | (english) | (german) |
| | CORROSION-RESISTING | KORROSIONSBEST |
| | MARTENSITE | MARTENSIT |
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| | | |
| 97 | Deutsches Patent- und Markenamt DPMA | 12.11.2009 (16:41h) |
| Publication | JP05156409 A | 22.06.1993 |
| Priority | JP317021 | 29.11.1991 |
| Application | JP291119913-317021 | |
| Applicant | NIPPON STEEL CORP. | |
| Inventor | TENTO, MASAYUKI | |
| Title | HIGH-STRENGTH MARTENSITE STAINLESS STEEL HAVING EXCELLENT SEA WATER RESISTANCE AND PRODUCTION THEREOF | |
| Info | TO DEVELOP THE HIGH-STRENGTH MARTENSITE STAINLESS STEEL HAVING EXCELLENT SEA WATER REISTANCE AND WELDABILITY BY HOT ROLLING A STAINLESS STEEL BILLET HAVING A SPECIFIC COMPSN., THEN HARDENING AND TEMPERING THIS STAINLESS STEEL | |
| IPC | C22C03800 | |
| Composition nr. | 1 | Composite component - |
| Composition | [weight-%]: C : 0-0,03 * SI : 0-1 * MN : 0-2 * CR : 11-15 * NI : 2-7 * MO : 2,01-4 * N : 0-0,02 * NB : 0-0,5 + V : 0-0,5 + AL : 0-0,05 + CA : 0-0,005 * FE : REST | |
| Keywords | (english) | (german) |
| | CORROSION-RESISTING | KORROSIONSBEST |
| | HARD | HART |
| | HEAT-TREATMENT | WÄRMEBEHANDLUNG |
| | MARTENSITE | MARTENSIT |
| | WELDABLE | SCHWEISSBAR |
| | | |
| 98 | Deutsches Patent- und Markenamt DPMA | 12.11.2009 (16:41h) |
| Publication | JP05112850 A | 07.05.1993 |
| Priority | JP97693 | 26.04.1991 |
| Application | JP260419913-97693 | |
| Applicant | NIPPON STEEL CORP. | |
| Inventor | SHIMADA, TETSUYA | |
| Title | PRECIPITATION HARDENING MARTENSITIC STAINLESS STEEL EXCELLENT IN WORKABILITY | |
| Info | TO OBTAIN PRECIPITATION HARDENING MARTENSITIC STAINLESS STEEL EXCELLENT IN WORKABILITY BY SPECIFYING A COMPSN. CONSTITUTED OF C, SI, MN, CR, NI, CU AND FE AND PRESCRIBING THE CALCULATED VALUE OF FERRITE DELTA AND THE CONTENT OF H | |
| IPC | C22C03800 | |
| Composition nr. | 1 | Composite component - |
| Composition | [weight-%]: C : 0-0,1 * SI : 0-1 * MN : 0-1 * CR : 13-20 * NI : 3-8 * CU : 1-5 & MO + TI + AL : 0-1 * H : 0-0,0002 * FE : REST | |
| Keywords | (english) | (german) |

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| | FERRITE | FERRIT |
| | MARTENSITE | MARTENSIT |
| | PRECIPITATION-HARDENING | AUSSCHIEDUNGSH |
| | | |
| 99 | Deutsches Patent- und Markenamt DPMA | 12.11.2009 (16:41h) |
| Publication | EP481377 A | 22.04.1992 |
| Priority | JP275423 | 16.10.1990 |
| Application | EP1110199191117408.4 | |
| Applicant | NISSHIN STEEL CO., LTD. | |
| Inventor | IGAWA, TAKASHI/ UEMATSU, YOSHIHIRO/ TAKEMOTO, TOSHIHIKO | |
| Title | PROCESS FOR PRODUCING HIGH-STRENGTH STAINLESS STEEL STRIP | |
| Info | | |
| IPC | C21D00802D | |
| Composition nr. | 1 | Composite component - |
| Composition | [weight-%]: C : (0)-0,15 * SI : (0)-6 * MN : (0)-10 * NI : (0)-8 * CR : 10-17 * N : (0)-0,3 * MO : 0-4 * CO : 0-4 * CU : 0-4 * TI + AL + NB + V + ZR : 0-1 * FE : REST | |
| Keywords | (english) | (german) |
| | AUSTENITE | AUSTENIT |
| | CORROSION-RESISTING | KORROSIONSBEST |
| | FERRITE | FERRIT |
| | HEAT-RESISTANT | HITZEBEST |
| | MARTENSITE | MARTENSIT |
| | TENSILE-STRENGTH | ZUGFEST |
| | USE | VERWENDUNG |
| | | |
| 100 | Deutsches Patent- und Markenamt DPMA | 12.11.2009 (16:41h) |
| Publication | EP481378 A | 22.04.1992 |
| Priority | JP275422 | 16.10.1990 |
| Application | EP1110199191117409.2 | |
| Applicant | NISSHIN STEEL CO., LTD. | |
| Inventor | IGAWA, TADASHI/ UEMATSU, YOSHIHIRO/ TAKEMOTO, TOSHIHIKO | |
| Title | PROCESS FOR PRODUCING HIGH STRENGTH STEEL BELT | |
| Info | | |
| IPC | B21B00500 | |
| Composition nr. | 1 | Composite component - |
| Composition | [weight-%]: CR : 10-17 * C : (0)-0,15 * NI : (0)-8 * SI : (0)-6 * MN : (0)-10 * N : (0)-0,3 * FE : REST * MO : 0-4 * CU : 0-4 * CO : 0-4 * TI + AL + NB + V + ZR + B + SELTERD : 0-1 | |
| Keywords | (english) | (german) |

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| | AUSTENITE | AUSTENIT |
| | CORROSION-RESISTING | KORROSIONSBEST |
| | FERRITE | FERRIT |
| | FINE-GRAINED | FEINKÖRNIG |
| | HEAT-TREATMENT | WÄRMEBEHANDLUNG |
| | MARTENSITE | MARTENSIT |
| | PRODUCTION | HERSTELLUNG |
| | TENSILE-STRENGTH | ZUGFEST |
| | USE | VERWENDUNG |
| | WELDABLE | SCHWEISSBAR |
| | | |
| 101 | Deutsches Patent- und Markenamt DPMA | 12.11.2009 (16:41h) |
| Publication | US5116570 C | 26.05.1992 |
| Priority | KR15019 | 21.09.1990 |
| Application | US12091991758637 | |
| Applicant | KOREA ADVANCED INSTITUTE OF SCIENCE AND TECHNOLOGY | |
| Inventor | KIM, YOUNG/ HONG, SOON/ SEOK, JIN | |
| Title | STAINLESS MARAGING STEEL HAVING HIGH STRENGTH, HIGH TOUGHNESS AND HIGH CORROSION RESISTANCE AND ITS MANUFACTURING PROCESS | |
| Info | | |
| IPC | C22C03844 | |
| Composition nr. | 1 | Composite component - |
| Composition | [weight-%]: CR : 8-12 * NI : 7-12 * W : 2-6 * AL : 0,1-0,5 * TI : 0,1-0,4 * C + SI + MN : 0-2,22 * FE : REST | |
| Keywords | (english) | (german) |
| | CORROSION-RESISTING | KORROSIONSBEST |
| | HEAT-TREATMENT | WÄRMEBEHANDLUNG |
| | MARTENSITE | MARTENSIT |
| | PLASTIC | PLASTISCH |
| | PRECIPITATION-HARDENING | AUSSCHIEDUNGSH |
| | PRODUCTION | HERSTELLUNG |
| | STRESS-CORROSION-RESIST | SPANNUNGSKORROSIONSBEST |
| | TENSILE-STRENGTH | ZUGFEST |
| | TOUGH | ZÄH |
| | | |
| 102 | Deutsches Patent- und Markenamt DPMA | 12.11.2009 (16:41h) |
| Publication | EP474530 A | 11.03.1992 |
| Priority | FR9010828 | 30.08.1990 |
| | EP1208199191402232.2 | |

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| Application | | |
| Applicant | USINE SAVOIE | |
| Inventor | HAUSER, JEAN-MICHEL | |
| Title | PROCEDE D'ELABORATION DE PRODUITS A TRES HAUTE CHARGE A LA RUPTURE A PARTIR D'UN ACIER AUSTENIQUE INSTABLE, ET PRODUITS EN RESULTANT | |
| Info | | |
| IPC | C21D00800 | |
| Composition nr. | 1 | Composite component - |
| Composition | [weight-%]: C : 0,01-0,15 * CR : 13-23 * NI : 5-13 * MN : 0,2-2,5 * SI : 0,2-3 * N : 0,01-0,15 * FE : REST * AL : 0-2 * MO : 0-2 | |
| Keywords | (english) | (german) |
| | AUSTENITE | AUSTENIT |
| | MARTENSITE | MARTENSIT |
| | TENSILE-STRENGTH | ZUGFEST |
| | | |
| 103 | Deutsches Patent- und Markenamt DPMA | 12.11.2009 (16:41h) |
| Publication | DE4039538 A | 13.06.1991 |
| Priority | JP318952 | 11.12.1989 |
| Application | DE11121990P4039538.3 | |
| Applicant | KAWASAKI STEEL CORP. | |
| Inventor | OKA, YUTAKA/ MATSUMOTO, SHIGETO/ UCHIDA, KIYOSHI | |
| Title | HOCHFESTER MARTENSITISCHER ROSTFREIER STAHL UND VERFAHREN ZU SEINER HERSTELLUNG | |
| Info | C*N < 0,05 | |
| IPC | C22C03844 | |
| Composition nr. | 1 | Composite component - |
| Composition | [weight-%]: C : 0,005-0,04 * SI : 0-1 * MN : 0-2 * CR : 12-17 * NI : 3-6 * MO : 0,1-1,5 * V : 0,02-0,5 * N : 0,005-0,02 * FE : REST * NB : 0-0,5 + CU : 0-2 * AL : 0-0,01 * P : 0-0,025 * S : 0-0,004 * O : 0-0,00 | |
| Keywords | (english) | (german) |
| | CORROSION-RESISTING | KORROSIONSBEST |
| | FATIGUE-RESISTING | SCHWINGFEST |
| | HEAT-TREATMENT | WÄRMEBEHANDLUNG |
| | MARTENSITE | MARTENSIT |
| | PLASTIC | PLASTISCH |
| | PRODUCTION | HERSTELLUNG |
| | TENSILE-STRENGTH | ZUGFEST |
| | TOUGH | ZÄH |
| | USE | VERWENDUNG |

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| | WELDABLE | SCHWEISSBAR |
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| 104 | <i>Deutsches Patent- und Markenamt DPMA</i> | <i>12.11.2009 (16:41h)</i> |
| Publication | JP03180448 A | 06.08.1991 |
| Priority | JP318952 | 11.12.1989 |
| Application | JP1112198964-318952 | |
| Applicant | KAWASAKI STEEL CORP. | |
| Inventor | OKA, YUTAKA | |
| Title | HIGH STRENGTH MARTENSITIC STAINLESS ROLLED STEEL SHEET HAVING EXCELLENT FATIGUE RESISTANCE IN CORROSIVE AND EROSIVE ENVIRONMENT | |
| Info | TO OBTAIN THE HIGH STRENGTH MARTENSITIC STAINLESS STEEL SHEET HAVING XCELLENT FATIGUE RESISTANCE BY SPECIFYING A COMPSN. CONSTITUTED OF C, SI, MN, CR, NI, MO, V, NB, AL, N AND FE AND REGULATING NON-METALLIC INCLUSIONS THEREIN | |
| IPC | C22C03800 | |
| Composition nr. | 1 | Composite component - |
| Composition | [weight-%]: C : 0-0,05 * SI : 0-1 * MN : 0-2 * CR : 12-17 * NI : 1,5-6,5 * MO : 0,2-2 * V : 0,01-0,5 + NB : 0,01-0,5 * AL : 0,005-0,025 * N : 0-0,01 * CU : 0-5 * FE : REST | |
| Keywords | (english) | (german) |
| | CORROSION-RESISTING | KORROSIONSBEST |
| | FATIGUE-RESISTING | SCHWINGFEST |
| | MARTENSITE | MARTENSIT |
| | TENSILE-STRENGTH | ZUGFEST |
| | USE | VERWENDUNG |
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| 105 | <i>Deutsches Patent- und Markenamt DPMA</i> | <i>12.11.2009 (16:41h)</i> |
| Publication | JP03120337 A | 22.05.1991 |
| Priority | JP258320 | 03.10.1989 |
| Application | JP0310198964-258320 | |
| Applicant | SUMITOMO METAL IND LTD. | |
| Inventor | KONDO, KUNIO | |
| Title | MARTENSITIC STAINLESS STEEL AND ITS MANUFACTURE | |
| Info | CR*MO > 11 *TO OBTAIN THE MARTENSITIC STAINLESS STEEL FOR OIL WELL USE HAVING EXCELLENT SULPHIDE STRESS CORROSION CRACKING PROPERTIES BY SUBJECTING A STEEL CONTG. SPECIFIED C, SI, MN, P, S, CR, MO, NI, AL AND N TO HOT FORMING AND THEREAFTER COOLING THE STEEL | |
| IPC | C22C03800 | |
| Composition nr. | 1 | Composite component - |
| Composition | [weight-%]: C : 0-0,05 * SI : 0-1 * MN : 0-0,5 * P : 0-0,04 * S : 0-0,002 * CR : 8-15 * MO : 1,5-7 | |

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| | * NI : 2-8 * AL : 0,001-0,1 * N : 0-0,1 * FE : REST | |
| Keywords | (english) | (german) |
| | CORROSION-RESISTING | KORROSIONSBEST |
| | MARTENSITE | MARTENSIT |
| | PRODUCTION | HERSTELLUNG |
| | STRESS-CORROSION-RESIST | SPANNUNGSKORROSIONSBEST |
| | USE | VERWENDUNG |
| | | |
| 106 | Deutsches Patent- und Markenamt DPMA | 12.11.2009 (16:41h) |
| Publication | JP02243740 A | 27.09.1990 |
| Priority | JP62699 | 15.03.1989 |
| Application | JP1503198964-62699 | |
| Applicant | SUMITOMO METAL IND LTD. | |
| Inventor | KONDO, KUNIO | |
| Title | MARTENSITIC STAINLESS STEEL MATERIAL FOR OIL WELL AND ITS MANUFACTURE | |
| Info | CR*MO > 10,5*TO EASILY OBTAIN THE STEEL MATERIAL HAVING SUFFICIENT CORROSION RESISTANCE, GOOD STRENGTH AND EXCELLENT SULPHIDE STRESS CORROSION CRACKING PROPERTIES EVEN IN AN OIL WELL ENVIRONMENT WITH INDUSTRIAL STABILITY BY SUBJECTING A STAINLESS STEEL HAVING LIMITED COMPSN. TO HOT WORKING AND THEREAFTER TO RAPID COOLING OR GRADUAL COOLING | |
| IPC | C22C03800 | |
| Composition nr. | 1 | Composite component - |
| Composition | [weight-%]: C : 0-0,05 * SI : 0-1 * MN : 0,5-3 * P : 0-0,04 * S : 0-0,005 * CR : 9-15 * MO : 0,1-7 * NI : 2-8 * AL : 0,001-0,1 * N : 0-0,1 * TI : 0-0,5 + NB : 0-0,5 + V : 0-0,5 + ZR : 0-0,5 * FE : REST | |
| Keywords | (english) | (german) |
| | CORROSION-RESISTING | KORROSIONSBEST |
| | HEAT-TREATMENT | WÄRMEBEHANDLUNG |
| | MARTENSITE | MARTENSIT |
| | PRODUCTION | HERSTELLUNG |
| | STRESS-CORROSION-RESIST | SPANNUNGSKORROSIONSBEST |
| | TENSILE-STRENGTH | ZUGFEST |
| | USE | VERWENDUNG |
| | | |
| 107 | Deutsches Patent- und Markenamt DPMA | 12.11.2009 (16:41h) |
| Publication | EP384317 A | 29.08.1990 |
| Priority | JP38956 | 18.02.1989 |
| Application | EP1602199090103026.2 | |
| Applicant | NIPPON STEEL CORP. | |
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|-----------------|---|-----------------------|
| Inventor | MIYASAKA, AKIHIRO/ OGAWA, HIROYUKI | |
| Title | MARTENSITIC STAINLESS STEEL AND METHOD OF HEAT TREATMENT OF THE STEEL | |
| Info | | |
| IPC | C21D00600 | |
| Composition nr. | 1 | Composite component - |
| Composition | [weight-%]: C : 0-0,1 * SI : 0-1 * MN : 0-2 * P : 0-0,025 * S : 0-0,015 * CR : 8-14 * CU : 1,2-4,5 * AL : 0,005-0,2 * N : 0,01-0,15 * NI : 0-4 * MO : 0-2 * W : 0-4 * V : 0-0,5 * TI : 0-0,2 * NB : 0-0,5 * ZR : 0-0,2 * TA : 0-0,2 * HF : 0-0,2 * CA : 0-0,008 * SELTERD : 0-0,02 * FE : REST | |
| Keywords | (english) | (german) |
| | CORROSION-RESISTING | KORROSIONSBEST |
| | HEAT-TREATMENT | WÄRMEBEHANDLUNG |
| | MARTENSITE | MARTENSIT |
| | TENSILE-STRENGTH | ZUGFEST |
| | USE | VERWENDUNG |
| | | |
| 108 | Deutsches Patent- und Markenamt DPMA | 12.11.2009 (16:41h) |
| Publication | EP330752 A | 06.09.1989 |
| Priority | JP48397 | 29.02.1988 |
| Application | EP1512198888121043.9 | |
| Applicant | KABUSHIKI KAISHA KOBE SEIKO SHO | |
| Inventor | YUTORI, TOSHIAKI/ KATUMATA, MASAOKI/ KOIDE, KENJI UND MITERFINDER | |
| Title | SUPERHIGH-STRENGTH SUPERFINE WIRE, AND REINFORCING MATERIALS AND COMPOSITE MATERIALS INCORPORATING THE SAME | |
| Info | | |
| IPC | C21D00806 | |
| Composition nr. | 1 | Composite component b |
| Composition | Composite material [%]: PLATTIERUNG * KERN Component a [weight-%]: NI + CU + ZN + AL + CR + TI + AG + AU + PT + ORGANISCH : 100 Component b [weight-%]: C : 0,01-0,5 * SI : 0-1,5 * MN : 0-5 * H : 0-0,0001 * NB + V + TI : 0-0,5 * S : 0-0,005 * P : 0-0,01 * N : 0-0,03 * AL : 0-0,01 * CR : 0-18 * CU : 0-2 * MO : 0-2 * NI : 0-8 * B : 0-0,02 * FE : REST | |
| Keywords | (english) | (german) |
| | CLADDING-MATERIAL | PLATTIERW |
| | CORROSION-RESISTING | KORROSIONSBEST |
| | FATIGUE-RESISTING | SCHWINGFEST |
| | MARTENSITE | MARTENSIT |
| | TENSILE-STRENGTH | ZUGFEST |
| | TOUGH | ZÄH |
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| 109 | <i>Deutsches Patent- und Markenamt DPMA</i> | <i>12.11.2009 (16:41h)</i> |
| Publication | EP330752 A | 06.09.1989 |
| Priority | JP48397 | 29.02.1988 |
| Application | EP1512198888121043.9 | |
| Applicant | KABUSHIKI KAISHA KOBE SEIKO SHO | |
| Inventor | YUTORI, TOSHIAKI/ KATUMATA, MASAOKI/ KOIDE, KENJI UND MITERFINDER | |
| Title | SUPERHIGH-STRENGTH SUPERFINE WIRE, AND REINFORCING MATERIALS AND COMPOSITE MATERIALS INCORPORATING THE SAME | |
| Info | | |
| IPC | C21D00806 | |
| Composition nr. | 2 | Composite component - |
| Composition | [weight-%]: C : 0,01-0,5 * SI : 0-1,5 * MN : 0-5 * H : 0-0,0001 * NB + V + TI : 0-0,5 * S : 0-0,005 * P : 0-0,01 * N : 0-0,03 * AL : 0-0,01 * CR : 0-18 * CU : 0-2 * MO : 0-2 * NI : 0-8 * B : 0-0,02 * FE : REST | |
| Keywords | (english) | (german) |
| | CORROSION-RESISTING | KORROSIONSBEST |
| | FATIGUE-RESISTING | SCHWINGFEST |
| | MARTENSITE | MARTENSIT |
| | TENSILE-STRENGTH | ZUGFEST |
| | TOUGH | ZÄH |
| | USE | VERWENDUNG |
| | | |
| 110 | <i>Deutsches Patent- und Markenamt DPMA</i> | <i>12.11.2009 (16:41h)</i> |
| Publication | JP01172524 A | 07.07.1989 |
| Priority | JP329983 | 28.12.1987 |
| Application | JP2812198762-329983 | |
| Applicant | NISSHIN STEEL CO LTD | |
| Inventor | TANAKA, TERUO | |
| Title | PRODUCTION OF COMPLEX PHASE STRUCTURE CHROMIUM STAINLESS STRIP HAVING EXCELLENT CORROSION RESISTANCE AND HIGH DUCTILITY AND STRENGTH | |
| Info | C*N:0,01-0,2 | |
| IPC | C21D00952 | |
| Composition nr. | 1 | Composite component - |
| Composition | [weight-%]: C : 0-0,15 * SI : 0-2 * MN : 0-4 * P : 0-0,04 * S : 0-0,01 * NI : 0-4 * CR : 10-20 * N : 0-0,12 * O : 0-0,02 * CU : 0-0,4 * MO : 1-2,5 * AL : 0-0,2 + B : 0-0,005 + SELTERD : 0-0,1 + Y : 0-0,2 * FE : REST | |
| Keywords | (english) | (german) |
| | CORROSION-RESISTING | KORROSIONSBEST |

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| | FERRITE | FERRIT |
| | HARD | HART |
| | HEAT-TREATMENT | WÄRMEBEHANDLUNG |
| | MARTENSITE | MARTENSIT |
| | PLASTIC | PLASTISCH |
| | PRODUCTION | HERSTELLUNG |
| | TENSILE-STRENGTH | ZUGFEST |
| | | |
| 111 | <i>Deutsches Patent- und Markenamt DPMA</i> | 12.11.2009 (16:41h) |
| Publication | JP63210234 A | 31.08.1988 |
| Priority | JP43156 | 27.02.1987 |
| Application | JP2702198762-43156 | |
| Applicant | NISSHIN STEEL CO LTD | |
| Inventor | TANAKA, TERUO | |
| Title | MANUFACTURE OF HIGH-STRENGTH STAINLESS STEEL STOCK EXCELLENT IN WORKABILITY AND FREE FROM SOFTENING BY WELDING | |
| Info | | |
| IPC | C21D00600 | |
| Composition nr. | 1 | Composite component - |
| Composition | [weight-%]: C : 0-0,1 * SI : 0-4,5 * MN : 0-5 * P : 0-0,06 * S : 0-0,03 * CR : 10-17 * NI : 3-10 * N : 0-0,1 * FE : REST * CU + MO + W + CO : 0-2,22 * TI + NB + V + ZR + AL + B + TA : 0-2,22 | |
| Keywords | (english) | (german) |
| | AUSTENITE | AUSTENIT |
| | CORROSION-RESISTING | KORROSIONSBEST |
| | HEAT-TREATMENT | WÄRMEBEHANDLUNG |
| | MARTENSITE | MARTENSIT |
| | PRODUCTION | HERSTELLUNG |
| | TENSILE-STRENGTH | ZUGFEST |
| | WELDABLE | SCHWEISSBAR |
| | | |
| 112 | <i>Deutsches Patent- und Markenamt DPMA</i> | 12.11.2009 (16:41h) |
| Publication | JP63210242 A | 31.08.1988 |
| Priority | JP43157 | 27.02.1987 |
| Application | JP2702198762-43157 | |
| Applicant | NISSHIN STEEL CO., LTD. | |
| Inventor | TANAKA, TERUO | |
| Title | MANUFACTURE OF HIGH-STRENGTH STAINLESS STEEL STOCK EXCELLENT IN WORKABILITY AND FREE FROM SOFTENING BY WELDING | |

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| Info | TO MANUFACTURE A HIGH-STRENGTH STAINLES STEEL STOCK EXCELLENT IN WORKABILITY AND FREE FROM DETERIORATION IN STRENGTH IN A WELD ZONE, BY SUBJECTING A STEEL IN WHICH COMPOSITION AND NI EQUIVALENT VALUE ARE SPECIFIED TO COLD ROLLING AND THEN TO HEAT TREATMENT UNDER SPECIFIC CONDITIONS | |
| IPC | C21D00946 | |
| Composition nr. | 1 | Composite component - |
| Composition | [weight-%]: C : 0-0,1 * SI : 0-4,5 * MN : 0-5 * P : 0-0,06 * S : 0-0,03 * CR : 10-17 * NI : 3-10 * N : 0-0,1 * FE : REST * CU + MO + W + CO : 0-2,22 * TI + NB + V + ZR + AL + B + TA : 0-2,22 | |
| Keywords | (english) | (german) |
| | AUSTENITE | AUSTENIT |
| | CORROSION-RESISTING | KORROSIONSBEST |
| | HEAT-TREATMENT | WÄRMEBEHANDLUNG |
| | MARTENSITE | MARTENSIT |
| | PLASTIC | PLASTISCH |
| | PRODUCTION | HERSTELLUNG |
| | TENSILE-STRENGTH | ZUGFEST |
| | WELDABLE | SCHWEISSBAR |
| | | |
| 113 | Deutsches Patent- und Markenamt DPMA | 12.11.2009 (16:41h) |
| Publication | EP273279 A | 06.07.1988 |
| Priority | JP311961 | 30.12.1986 |
| Application | EP1112198787118422.2 | |
| Applicant | NISSHIN STEEL CO., LTD. | |
| Inventor | TANAKA, TERUO/ MIYAKUSU, KATSUHISA/ FUJIMOTO, HIROSHI | |
| Title | PROCESS FOR THE PRODUCTION OF A STRIP OF A CHROMIUM STAINLESS STEEL OF A DUPLEX STRUCTURE HAVING HIGH STRENGTH AND ELONGATION AS WELL AS REDUCED PLANE ANISOTROPY | |
| Info | C*N:0,01-0,2*NI*MN*CU:0,5-5 | |
| IPC | C21D00802 | |
| Composition nr. | 1 | Composite component - |
| Composition | [weight-%]: CR : 10-20 * C : 0-0,1 * N : 0-0,12 * SI : 0-2 * MN : 0-4 * NI : 0-4 * CU : 0-4 * P : 0-0,04 * S : 0-0,03 * AL : 0-0,2 * MO : 0-2,5 * O : 0-0,02 * B : 0-0,005 * SELTERD : 0-0,1 * Y : 0-0,2 * FE : REST | |
| Keywords | (english) | (german) |
| | CORROSION-RESISTING | KORROSIONSBEST |
| | HARD | HART |
| | HEAT-TREATMENT | WÄRMEBEHANDLUNG |
| | MARTENSITE | MARTENSIT |
| | PLASTIC | PLASTISCH |

| | | |
|-----------------|--|-----------------------|
| | PRODUCTION | HERSTELLUNG |
| | TENSILE-STRENGTH | ZUGFEST |
| | | |
| 114 | Deutsches Patent- und Markenamt DPMA | 12.11.2009 (16:41h) |
| Publication | JP63057745 A | 12.03.1988 |
| Priority | JP201071 | 27.08.1986 |
| Application | JP2708198661-201071 | |
| Applicant | NISSHIN STEEL CO., LTD. | |
| Inventor | UTSUNOMIYA, TAKESHI | |
| Title | HIGH-STRENGTH STAINLESS STEEL EXCELLENT IN WORKABILITY | |
| Info | TO OBTAIN HIGH STRENGTH AS WELL AS HIGH WORKABILITY AFTER AGING TREATMENT, BY INCORPORATING SPECIFIC AMOUNTS OF C, SI MN, NI, CR, AND NB TO A HIGH-STRENGTH STAINLESS STEEL AND FURTHER BY INCORPORATING SPECIFIC AMOUNTS OF TI, ZR, NB, ETC., TO THE ABOVE | |
| IPC | C22C03850 | |
| Composition nr. | 1 | Composite component - |
| Composition | [weight-%]: C : 0-0,08 * SI : 0,5-5 * MN : 0-1 * NI : 4-9 * CR : 12-20 * N : 0-0,03 * TI : 0,1-2 + ZR : 0,1-2 + NB : 0,1-2 + TA : 0,1-2 + AL : 0,1-2 + CU : 0,2-3 * FE : REST | |
| Keywords | (english) | (german) |
| | CORROSION-RESISTING | KORROSIONSBEST |
| | FERRITE | FERRIT |
| | HEAT-TREATMENT | WÄRMEBEHANDLUNG |
| | MARTENSITE | MARTENSIT |
| | PRECIPITATION-HARDENING | AUSSCHIEDUNGSH |
| | TENSILE-STRENGTH | ZUGFEST |
| | | |
| 115 | Deutsches Patent- und Markenamt DPMA | 12.11.2009 (16:41h) |
| Publication | EP257780 A | 02.03.1988 |
| Priority | US898487 | 21.08.1986 |
| Application | EP2007198787306418.2 | |
| Applicant | CRUCIBLE MATERIALS CORP | |
| Inventor | HASWELL, WALTER/ PINNOW, KENNETH/ RHODES, GEOFFREY UND MITERFINDER | |
| Title | AGE-HARDENABLE STAINLESS STEEL | |
| Info | | |
| IPC | C22C03842 | |
| Composition nr. | 1 | Composite component - |
| Composition | [weight-%]: C * N : 0-0,08 * MN : 0-8 * P : 0-0,04 * S : 0-0,15 * SI : 0-1 * NI : 2-5,5 * CR : 11- | |

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| | 17,5 * MO : 0-3 * CU : 2-5 * NB : 0-1,2 * AL : 0-0,05 * BE : 0-0,5 * B : 0-0,01 * FE : REST | |
| Keywords | (english) | (german) |
| | CORROSION-RESISTING | KORROSIONSBEST |
| | HEAT-TREATMENT | WÄRMEBEHANDLUNG |
| | MACHINEABLE | ZERSPANBAR |
| | MARTENSITE | MARTENSIT |
| | PRECIPITATION-HARDENING | AUSSCHIEDUNGSH |
| | STRESS-CORROSION-RESIST | SPANNUNGSKORROSIONSBEST |
| | USE | VERWENDUNG |
| | | |
| 116 | Deutsches Patent- und Markenamt DPMA | 12.11.2009 (16:41h) |
| Publication | DE3628862 A | 12.03.1987 |
| Priority | JP186605 | 27.08.1985 |
| Application | DE26081986P3628862 | |
| Applicant | NISSHIN STEEL CO., LTD. | |
| Inventor | HOSHINO, KAZUO/ IGAWA, TAKASHI | |
| Title | VERFAHREN ZUR HERSTELLUNG VON STAHL | |
| Info | | |
| IPC | C21D00802 | |
| Composition nr. | 1 | Composite component - |
| Composition | [weight-%]: C : 0-0,1 * SI : 0,2-4,5 * MN : 0,2-5 * P : 0-0,06 * S : 0-0,03 * CR : 10-17 * NI : 3-8 * N : 0,005-0,1 * CU + MO + W + CO : 0-4 * TI + NB + V + ZR + AL + B : 0-1 * FE : REST | |
| Keywords | (english) | (german) |
| | CORROSION-RESISTING | KORROSIONSBEST |
| | HEAT-TREATMENT | WÄRMEBEHANDLUNG |
| | MARTENSITE | MARTENSIT |
| | PLASTIC | PLASTISCH |
| | PRODUCTION | HERSTELLUNG |
| | TENSILE-STRENGTH | ZUGFEST |
| | WELDABLE | SCHWEISSBAR |
| | | |
| 117 | Deutsches Patent- und Markenamt DPMA | 12.11.2009 (16:41h) |
| Publication | GB2179675 A | 11.03.1987 |
| Priority | JP186605 | 27.08.1985 |
| Application | GB270819868620720 | |
| Applicant | NISSHIN STEEL CO., LTD. | |
| Inventor | HOSHINO, KAZUO/ IGAWA, TAKASHI | |
| Title | PROCESS FOR PREPARING A HIGH STRENGTH STAINLESS STEEL MATERIAL HAVING EXCELLENT WORKABILITY AND FREE FROM WELD SOFTENING | |
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| Info | | |
| IPC | C22C03840 | |
| Composition nr. | 1 | Composite component - |
| Composition | [weight-%]: C : 0-0,1 * SI : 0,2-4,5 * MN : 0,2-5 * P : 0-0,06 * S : 0-0,03 * CR : 10-17 * NI : 3-8 * N : 0-0,1 * CU + MO + W + CO : 0-4 * TI + NB + V + ZR + AL + B : 0-1 * FE : REST | |
| Keywords | (english) | (german) |
| | CORROSION-RESISTING | KORROSIONSBEST |
| | HEAT-TREATMENT | WÄRMEBEHANDLUNG |
| | MARTENSITE | MARTENSIT |
| | PLASTIC | PLASTISCH |
| | TENSILE-STRENGTH | ZUGFEST |
| | WELDABLE | SCHWEISSBAR |
| | | |
| 118 | Deutsches Patent- und Markenamt DPMA | 12.11.2009 (16:41h) |
| Publication | DE3619706 A | 02.01.1987 |
| Priority | JP137502 | 24.06.1985 |
| Application | DE12061986P3619706 | |
| Applicant | NISSHIN STEEL CO., LTD. | |
| Inventor | HOSHINO, KAZUO/ SADA0, NAKAMURA/ SADAYUKI, YAMAGUCHI | |
| Title | HOCHFESTER NICHTROSTENDER STAHL | |
| Info | C*N: > 0,1 | |
| IPC | C22C03840 | |
| Composition nr. | 1 | Composite component - |
| Composition | [weight-%]: C : 0-0,1 * SI : 1-3 * MN : 0-0,5 * NI : 4-8 * CR : 12-18 * CU : 0,5-3,5 * N : 0-0,15 * S : 0-0,004 * FE : REST * AL : 0-0,02 * TI : 0-0,02 * P : 0-0,04 * CA : 0-0,01 * SELTERD : 0-0,02 | |
| Keywords | (english) | (german) |
| | CORROSION-RESISTING | KORROSIONSBEST |
| | HARD | HART |
| | MARTENSITE | MARTENSIT |
| | PLASTIC | PLASTISCH |
| | SPRINGS | FEDERN |
| | TENSILE-STRENGTH | ZUGFEST |
| | TOUGH | ZÄH |
| | | |
| 119 | Deutsches Patent- und Markenamt DPMA | 12.11.2009 (16:41h) |
| Publication | GB2177113 A | 14.01.1987 |
| Priority | JP137502 | 24.06.1985 |
| Application | GB200619868615119 | |
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| Applicant | NISSHIN STEEL CO., LTD. | |
| Inventor | HOSHINO, KAZUO/ HIROTSU, SADA0/ NAKAMURA, SADAYUKI | |
| Title | HIGH STRENGTH STAINLESS STEEL | |
| Info | | |
| IPC | C22C03842 | |
| Composition nr. | 1 | Composite component - |
| Composition | {weight-%}: C : 0-0,1 * SI : 1-3 * MN : 0-0,5 * NI : 4-8 * CR : 12-18 * CU : 0,5-3,5 * N : 0-0,15 * S : 0-0,004 * FE : REST * AL : 0-0,02 * TI : 0-0,02 * P : 0-0,04 * CA : 0-0,01 * SELTERD : 0-0,02 | |
| Keywords | (english) | (german) |
| | CORROSION-RESISTING | KORROSIONSBEST |
| | CUTTING-EDGE-HOLDING-PR | SCHNEIDHALTIG |
| | MARTENSITE | MARTENSIT |
| | PLASTIC | PLASTISCH |
| | PRECIPITATION-HARDENING | AUSSCHIEDUNGSH |
| | SPRINGS | FEDERN |
| | TENSILE-STRENGTH | ZUGFEST |
| | TOOL | WERKZEUG |
| | TOUGH | ZÄH |
| | | |
| 120 | Deutsches Patent- und Markenamt DPMA | 12.11.2009 (16:41h) |
| Publication | JP60177134 AA | 11.09.1985 |
| Priority | JP59-32656 | 24.02.1984 |
| Application | JP2402198459-32656 | |
| Applicant | NITSUSHIN SEIKOU K.K. | |
| Inventor | HOSHINO, KAZUO | |
| Title | PRODUCTION OF STAINLESS STEEL BLADE | |
| Info | | |
| IPC | C21D00918 | |
| Composition nr. | 1 | Composite component - |
| Composition | {weight-%}: C : 0-0,08 * N : 0-0,03 * SI : 1-5 * MN : 0-1 * NI : 5-9 * CR : 10-17 * CU : 0-2,5 * TI : 0,1-2 * NB : 0,1-2 * AL : 0,01-2 * FE : REST | |
| Keywords | (english) | (german) |
| | CORROSION-RESISTING | KORROSIONSBEST |
| | CUTTING-EDGE-HOLDING-PR | SCHNEIDHALTIG |
| | HEAT-TREATMENT | WÄRMEBEHANDLUNG |
| | MARTENSITE | MARTENSIT |
| | PRECIPITATION-HARDENING | AUSSCHIEDUNGSH |
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| 121 | <i>Deutsches Patent- und Markenamt DPMA</i> | <i>12.11.2009 (16:41h)</i> |
| Publication | JP60152660 A | 10.08.1985 |
| Priority | JP8564 | 23.01.1984 |
| Application | JP2301198459-8564 | |
| Applicant | NITSUSHIN SEIKOU K.K. | |
| Inventor | HOSHINO, KAZUO | |
| Title | PRECIPITATION HARDENING MARTENSITIC STAINLESS STEEL | |
| Info | SI. (TI+0,8NB+AL) MAX. 10*TO OBTAIN THE TITLED STAINLESS STEEL HAVING SUPERIOR TOUGHNESS AND ENABLING REDUCTION IN AGING TIME BY ADDING SPECIFIED PERCENTAGES OF C, N, SI, MN, NI AND CR AND REGULATING THE AMOUNT OF TI, NB OR AL CONTAINED | |
| IPC | C22C03850 | |
| Composition nr. | 1 | Composite component - |
| Composition | [weight-%]: C : 0-0,08 * SI : 1-5 * MN : 0-1 * N : 0-0,03 * CR : 10-17 * NI : 5-9 * CU : 0-2,5 * TI : 0,1-2 + NB : 0,1-2 + AL : 0,01-2 * FE : REST | |
| Keywords | (english) | (german) |
| | CORROSION-RESISTING | KORROSIONSBEST |
| | HEAT-TREATMENT | WÄRMEBEHANDLUNG |
| | MARTENSITE | MARTENSIT |
| | PRECIPITATION-HARDENING | AUSSCHIEDUNGSH |
| | TENSILE-STRENGTH | ZUGFEST |
| | TOUGH | ZÄH |
| | | |
| 122 | <i>Deutsches Patent- und Markenamt DPMA</i> | <i>12.11.2009 (16:41h)</i> |
| Publication | DE3427602 A | 21.02.1985 |
| Priority | JP143587 | 05.08.1983 |
| Application | DE26071984P3427602 | |
| Applicant | NISSHIN STEEL CO., LTD. | |
| Inventor | UTSUNOMIYA, TAKESHI/ HOSHINO, KAZUO/ HIROTSU, SADA0 | |
| Title | NICTROSTENDER, AUSSCHIEDUNGSHAERTBARER MARTENSITSTAHL | |
| Info | | |
| IPC | C22C03858 | |
| Composition nr. | 1 | Composite component - |
| Composition | [weight-%]: C : 0-0,08 * SI : 0,5-4 * MN : 0-4 * NI : 5-9 * CR : 10-17 * MO : 0,3-2,5 * TI : 0,15-1 * AL : 0-1 * N : 0-0,03 * FE : REST * CU : 0-2,5 | |
| Keywords | (english) | (german) |
| | CORROSION-RESISTING | KORROSIONSBEST |
| | HARD | HART |
| | MARTENSITE | MARTENSIT |
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| | PRECIPITATION-HARDENING | AUSSCHIEDUNGSH |
| | SPRINGS | FEDERN |
| | TENSILE-STRENGTH | ZUGFEST |
| | TOUGH | ZÄH |
| | | |
| 123 | <i>Deutsches Patent- und Markenamt DPMA</i> | <i>12.11.2009 (16:41h)</i> |
| Publication | FR2550226 A | 08.02.1985 |
| Priority | JP143587 | 05.08.1983 |
| Application | FR030819848412338 | |
| Applicant | NISSHIN STEEL CO., LTD. | |
| Inventor | UTSUNOMIYA, TAKESHI/ HOSHINO, KAZUO/ HIROTSU, SADA0 | |
| Title | ACIER INOXYDABLE MARTENSITIQUE SUSCEPTIBLE DE DURCISSEMENT STRUCTURAL | |
| Info | | |
| IPC | C22C03858 | |
| Composition nr. | 1 | Composite component - |
| Composition | [weight-%]: C : (0)-0,08 * SI : 0,5-4 * MN : (0)-4 * NI : 5-9 * CR : 10-17 * MO : 0,3-2,5 * TI : 0,15-1 * AL : 0-1 * N : 0-0,03 * P + S : 0-0,33 * FE : REST * CU : 0-2,5 | |
| Keywords | (english) | (german) |
| | CORROSION-RESISTING | KORROSIONSBEST |
| | HARD | HART |
| | MARTENSITE | MARTENSIT |
| | TENSILE-STRENGTH | ZUGFEST |
| | USE | VERWENDUNG |
| | | |
| 124 | <i>Deutsches Patent- und Markenamt DPMA</i> | <i>12.11.2009 (16:41h)</i> |
| Publication | GB2145734 A | 03.04.1985 |
| Priority | JP143587 | 05.08.1983 |
| Application | GB020819848419688 | |
| Applicant | NISSHIN STEEL CO., LTD. | |
| Inventor | UTSUNOMIYA, TAKESHI/ HOSHINO, KAZUO/ HIROTSU, SADA0 | |
| Title | MARTENSITIC PRECIPITATION-HARDENABLE STAINLESS STEEL | |
| Info | | |
| IPC | C22C03850 | |
| Composition nr. | 1 | Composite component - |
| Composition | [weight-%]: C : 0-0,08 * SI : 0,5-4 * MN : 0-4 * NI : 5-9 * CR : 10-17 * MO : 0,3-2,5 * TI : 0,15-1 * AL : 0-1 * N : 0-0,03 * CU : 0-2,5 * FE : REST | |
| Keywords | (english) | (german) |
| | CORROSION-RESISTING | KORROSIONSBEST |

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| | HARD | HART |
| | MARTENSITE | MARTENSIT |
| | PRECIPITATION-HARDENING | AUSSCHIEDUNGSH |
| | TENSILE-STRENGTH | ZUGFEST |
| | TOUGH | ZÄH |
| | | |
| 125 | Deutsches Patent- und Markenamt DPMA | 12.11.2009 (16:41h) |
| Publication | EP105864 A | 18.04.1984 |
| Priority | AT3457 | 15.09.1982 |
| Application | EP1409198383890162.7 | |
| Applicant | VOEST-ALPINE AG. | |
| Inventor | AUGUSTIN, HUBERT/ PIRKER, ROBERT | |
| Title | HERZSTUECK, INSBESONDERE HERZSTUECKSPITZE, FUER SCHIENENKREUZUNGEN ODER -WEICHEN, SOWIE VERFAHREN ZU SEINER HERSTELLUNG | |
| Info | | |
| IPC | C22C03808 | |
| Composition nr. | 1 | Composite component - |
| Composition | {weight-%}: C : 0,01-0,05 * SI : 0,01-0,2 * MN : 0,01-0,2 * CO : 0-15 * MO : 1,5-6 * NI : 7-20 * TI : 0,1-1 * CR : 0-13 * AL : 0-0,2 * B : 0-0,1 * ZR : 0-0,1 * FE : REST | |
| Keywords | (english) | (german) |
| | CLADDING-MATERIAL | PLATTIERW |
| | FILLER-MATERIAL | SCHWEISSZUSATZW |
| | MARTENSITE | MARTENSIT |
| | TENSILE-STRENGTH | ZUGFEST |
| | TOUGH | ZÄH |
| | WEAR/TEAR | VERSCHLEISS |
| | WELDABLE | SCHWEISSBAR |
| | | |
| 126 | Deutsches Patent- und Markenamt DPMA | 12.11.2009 (16:41h) |
| Publication | JP57106493 A | 02.07.1982 |
| Priority | JP182731 | 25.12.1980 |
| Application | JP2512198055-182731 | |
| Applicant | KAWASAKI SEITETSU K.K. | |
| Inventor | YOSHIOKA, KEIICHI | |
| Title | MARTINSITE STAINLESS STEEL WELDING MATERIAL | |
| Info | TO OBTAIN A WELDED METALLIC JOINT AND A WELDING MATERIAL OF EXCELLENT WORKABILITY BY MAKING A WELDING MATERIAL FOR A LOW CARBON AND NITROGEN MARTENSITE STAINLESS STEEL PLATE, A MARTENSITE STAINLESS STEEL OF SPECIFIED COMPOSITION | |
| IPC | B23K03530 | |
| | | |

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| Composition nr. | 1 | Composite component - |
| Composition | [weight-%]: C : 0-0,03 * N : 0-0,03 * SI : 0-0,5 * MN : 0,5-3 * CU : 0-1 * NI : 0,5-6 * CR : 10-16 * AL : 0,05-0,3 * NB : 0-0,3 * SELTERD : 0-0,1 * FE : REST | |
| Keywords | (english) | (german) |
| | CORROSION-RESISTING | KORROSIONSBEST |
| | FILLER-MATERIAL | SCHWEISSZUSATZW |
| | MARTENSITE | MARTENSIT |
| | TOUGH | ZÄH |
| | USE | VERWENDUNG |
| | WIRE | DRAHT |
| | | |
| 127 | Deutsches Patent- und Markenamt DPMA | 12.11.2009 (16:41h) |
| Publication | DE2935284 A | 12.03.1981 |
| Priority | DE2935284 | 31.08.1979 |
| Application | DE31081979P2935284 | |
| Applicant | KAWASAKI STEEL CORP. | |
| Inventor | SHIMOMURA,JUNICHI/NOHARA,KOYOHICO/ONO,YUTAKA UND MITERFINDER | |
| Title | VERFAHREN ZUM HERSTELLEN NICHTROSTENDER FEDERSTAEHLE MIT HOHER FESTIGKEIT UND AUSGEZEICHNETER DAUERFESTIGKEIT | |
| Info | | |
| IPC | 18C00C21D00900200 | |
| Composition nr. | 1 | Composite component - |
| Composition | [weight-%]: C : 0-0,15 * SI : 0,3-2 * MN : 0,5-2 * NI : 6-14 * CR : 13-20 * AL : 0-1,5 * MO : 0-2 * CU : 0-3 * FE : REST | |
| Keywords | (english) | (german) |
| | CORROSION-RESISTING | KORROSIONSBEST |
| | CREEP-RESIST/STABILITY | STANDFEST |
| | ELASTIC | ELASTISCH |
| | FATIGUE-RESISTING | SCHWINGFEST |
| | HARD | HART |
| | HEAT-TREATMENT | WÄRMEBEHANDLUNG |
| | MARTENSITE | MARTENSIT |
| | SPRINGS | FEDERN |
| | TENSILE-STRENGTH | ZUGFEST |
| | | |
| 128 | Deutsches Patent- und Markenamt DPMA | 12.11.2009 (16:41h) |
| Publication | US4265679 C | 05.05.1981 |
| Priority | US69050 | 23.08.1979 |
| Application | US2308197969050 | |
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|-----------------|---|-----------------------|
| Applicant | KAWASAKI STEEL CORP./ NIPPON KINZOKU CO., LTD. | |
| Inventor | OHASHI, NOBUO/ ONO, YUTAKA/ NOHARA, KIYOHKI UND MITERFINDER | |
| Title | PROCESS FOR PRODUCING STAINLESS STEELS FOR SPRING HAVING A HIGH STRENGTH AND AN EXCELLENT FATIGUE RESISTANCE | |
| Info | | |
| IPC | C21D00700200 | |
| Composition nr. | 1 | Composite component - |
| Composition | [weight-%]: C : (0)-0,15 * SI : 0,3-2 * MN : 0,5-2 * NI : 6-14 * CR : 13-20 * AL : 0-1,5 + MO : 0-2 + CU : 0-3 * FE : REST | |
| Keywords | (english) | (german) |
| | CORROSION-RESISTING | KORROSIONSBEST |
| | FATIGUE-RESISTING | SCHWINGFEST |
| | HARD | HART |
| | HEAT-TREATMENT | WÄRMEBEHANDLUNG |
| | MARTENSITE | MARTENSIT |
| | PRODUCTION | HERSTELLUNG |
| | SPRINGS | FEDERN |
| | | |
| 129 | Deutsches Patent- und Markenamt DPMA | 12.11.2009 (16:41h) |
| Publication | GB2056352 A | 18.03.1981 |
| Priority | GB7929007 | 21.08.1979 |
| Application | GB210819797929007 | |
| Applicant | KAWASAKI STEEL CORP. | |
| Inventor | OHASHI,NOBUO/ONO,YUTAKA/NOHARA,KIYOHKO UND MITERFINDER | |
| Title | A PROCESS FOR PRODUCING STAINLESS STEELS FOR SPRINGS | |
| Info | | |
| IPC | C21D00900200 | |
| Composition nr. | 1 | Composite component - |
| Composition | [weight-%]: C : (0)-0,15 * SI : 0,3-2 * MN : 0,5-2 * NI : 6-14 * CR : 13-20 * AL : 0-1,5 * MO : 0-2 * CU : 0-3 * FE : REST | |
| Keywords | (english) | (german) |
| | FATIGUE-RESISTING | SCHWINGFEST |
| | HEAT-TREATMENT | WÄRMEBEHANDLUNG |
| | MARTENSITE | MARTENSIT |
| | PRODUCTION | HERSTELLUNG |
| | SPRINGS | FEDERN |
| | TENSILE-STRENGTH | ZUGFEST |
| | | |
| 130 | Deutsches Patent- und Markenamt DPMA | 12.11.2009 (16:41h) |

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|-----------------|---|-------------------------|
| Publication | GB1459915 C | 31.12.1976 |
| Priority | SE7308126 | 08.06.1973 |
| Application | GB0706197425488/74 | |
| Applicant | SANDVIK AB. | |
| Inventor | | |
| Title | HIGH STRENGTH STAINLESS STEEL | |
| Info | | |
| IPC | 40B00C22C03804000 | |
| Composition nr. | 1 | Composite component - |
| Composition | [weight-%]: C : 0,01-0,2 * SI : 0-5 * MN : 0-10 * CR : 13-20 * NI : 3-10 * MO : 0-2,5 * AL : 0-2,5 * S + P + N : 0-0,33 * FE : REST | |
| Keywords | (english) | (german) |
| | HEAT-TREATMENT | WÄRMEBEHANDLUNG |
| | MARTENSITE | MARTENSIT |
| | PLASTIC | PLASTISCH |
| | PRODUCTION | HERSTELLUNG |
| | TENSILE-STRENGTH | ZUGFEST |
| | | |
| 131 | Deutsches Patent- und Markenamt DPMA | 12.11.2009 (16:41h) |
| Publication | US3723101 C | 27.03.1973 |
| Priority | US46443 | 15.06.1970 |
| Application | US1506197046443 | |
| Applicant | AIRCO INC. | |
| Inventor | HUNT,CHARLES | |
| Title | IRON BASE ALLOYS HAVING LOW LEVELS OF VOLATILE METALLIC IMPURITIES | |
| Info | | |
| IPC | 40B00C22C03801800 | |
| Composition nr. | 1 | Composite component - |
| Composition | [weight-%]: CR : 4-40 * NI : 0-15 * C + N : (0)-0,07 * PB + BI + CD + AG + CA + MG + BA + NA + K : 0-0,0006 * ZN + SB : 0-0,002 * FE : REST * AL : 0-6 * MO : 0-2,2 * MN : 0-1,54 * SI : 0-1,06 * TI : 0-0,56 * V : 0-0,4 * W : 0-0,1 * O : 0-0,0012 * S : 0-0,024 * P : 0-0,035 * ZR : 0-0,16 | |
| Keywords | (english) | (german) |
| | CORROSION-RESISTING | KORROSIONSBEST |
| | MARTENSITE | MARTENSIT |
| | PLASTIC | PLASTISCH |
| | STRESS-CORROSION-RESIST | SPANNUNGSKORROSIONSBEST |
| | TENSILE-STRENGTH | ZUGFEST |
| | | |

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| | TOUGH | ZÄH |
| | | |
| 132 | Deutsches Patent- und Markenamt DPMA | 12.11.2009 (16:41h) |
| Publication | DE1962504 B | 04.02.1971 |
| Priority | JP91385 | 14.12.1968 |
| Application | DT12121969P1962504 | |
| Applicant | MITSUBISHI JUKOGYO K.K. | |
| Inventor | ODA,TEISHIRO | |
| Title | VERFAHREN ZUR WAERMEBEHANDLUNG VON STAHL | |
| Info | | |
| IPC | 18C00C21D00100000 | |
| Composition nr. | 1 | Composite component - |
| Composition | [weight-%]: C : (0)-0,06 * SI : 0-1 * MN : 0-1 * NI : 3-10 * CR : 8-17 * CO : 4-10 * MO + W : 1-5 * FE : REST * TI + AL + ZR + U + CS + HF + CA + B : 0-2,22 | |
| Keywords | (english) | (german) |
| | DAMPING | DÄMPFEND |
| | HEAT-TREATMENT | WÄRMEBEHANDLUNG |
| | MARTENSITE | MARTENSIT |
| | PRECIPITATION-HARDENING | AUSSCHIEDUNGSH |
| | TURBINE | TURBINE |
| | | |
| 133 | Deutsches Patent- und Markenamt DPMA | 12.11.2009 (16:41h) |
| Publication | DE1957421 A | 27.08.1970 |
| Priority | US779609 | 27.11.1968 |
| Application | DT14111969P1957421 | |
| Applicant | CARPENTER TECHNOLOGY CORP. | |
| Inventor | MYERS,LEWIS/GODA JR.,KERMIT | |
| Title | KORROSIONSBESTAENDIGE NICHTROSTENDE STAHLLEGIERUNG | |
| Info | | |
| IPC | 40B00C22C039020P0 | |
| Composition nr. | 1 | Composite component - |
| Composition | [weight-%]: C : 0-0,2 * AL + ZR + MG + SELTERD : 0-1 * MN : 0-3,5 * SI : 0-2,5 * P : 0-0,05 * S + SE : 0-0,5 * CR : 13,5-17 * NI : 4-9 * MO : 0,5-3 + W : 0,6-4,8 * CU : 0,75-3 * NB : 0-2 * TI : 0-1 * CO : 0-6 * B : 0-0,01 * V : 0-1 * TA : 0-1 * N : 0-0,1 * FE : REST | |
| Keywords | (english) | (german) |
| | CORROSION-RESISTING | KORROSIONSBEST |
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| | HEAT-TREATMENT | WÄRMEBEHANDLUNG |
| | MACHINEABLE | ZERSPANBAR |
| | MARTENSITE | MARTENSIT |
| | PRODUCTION | HERSTELLUNG |
| | TENSILE-STRENGTH | ZUGFEST |
| | USE | VERWENDUNG |
| | VALVE | VENTIL |
| | | |
| 134 | Deutsches Patent- und Markenamt DPMA | 12.11.2009 (16:41h) |
| Publication | US3574601 C | 13.04.1971 |
| Priority | US779609 | 27.11.1968 |
| Application | US27111968779609 | |
| Applicant | CARPENTER TECHNOLOGY CORP. | |
| Inventor | MYERS,LEWIS/GODA JR.,KERMIT | |
| Title | CORROSION RESISTANT ALLOY | |
| Info | MO*W<4,8 | |
| IPC | 40B00C22C039022Q0 | |
| Composition nr. | 1 | Composite component - |
| Composition | [weight-%]: C : 0-0,2 * MN : 0-3,5 * SI : 0-2,5 * P : 0-0,05 * S + SE : 0-0,5 * CR : 13,5-17 * NI : 4-9 * MO : 0,5-3 + W : 0,6-4,8 * CU : 0,75-3 * NB : 0-2 * TI : 0-1 * CO : 0-6 * B : 0-0,01 * N : 0-0,1 * V + TA + AL + ZR + MG + SELTERD : 0-1 * FE : REST | |
| Keywords | (english) | (german) |
| | CORROSION-RESISTING | KORROSIONSBEST |
| | MACHINEABLE | ZERSPANBAR |
| | MARTENSITE | MARTENSIT |
| | PLASTIC | PLASTISCH |
| | TENSILE-STRENGTH | ZUGFEST |
| | USE | VERWENDUNG |
| | | |
| 135 | Deutsches Patent- und Markenamt DPMA | 12.11.2009 (16:41h) |
| Publication | GB1274465 C | 17.05.1972 |
| Priority | JP39414 | 10.06.1968 |
| Application | GB0906196929159/69 | |
| Applicant | HITACHI LTD. | |
| Inventor | | |
| Title | PRECIPITATION HARDENING STAINLESS STEEL | |
| Info | CR+MO>16 | |
| IPC | 40B00C22C03804800 | |

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| Composition nr. | 1 | Composite component - |
| Composition | [weight-%]: NI : 5-10 * CR : 6-19 * NB : 0,1-3 * C : 0-0,1 * AL : 0,1-1,5 * MN : 0-1,5 * SI : 0-1,4 * FE : REST * S + P + N : 0-0,33 * MO : 0-10 * TI : 0-1 | |
| Keywords | (english) | (german) |
| | CORROSION-RESISTING | KORROSIONSBEST |
| | ELASTIC | ELASTISCH |
| | HARD | HART |
| | HEAT-TREATMENT | WÄRMEBEHANDLUNG |
| | MARTENSITE | MARTENSIT |
| | PLASTIC | PLASTISCH |
| | PRECIPITATION-HARDENING | AUSSCHIEDUNGSH |
| | PRODUCTION | HERSTELLUNG |
| | | |
| 136 | Deutsches Patent- und Markenamt DPMA | 12.11.2009 (16:41h) |
| Publication | DE1758295 A | 30.03.1972 |
| Priority | US722640 | 19.04.1968 |
| Application | DT08051968P1758295 | |
| Applicant | AIR REDUCTION CO.,INC. | |
| Inventor | HUNT,CHARLES | |
| Title | EISEN-CHROM-LEGIERUNG | |
| Info | | |
| IPC | 40B00C22C039014K0 | |
| Composition nr. | 1 | Composite component - |
| Composition | {weight-%}: CR : 4-40 * NI : 0-14 * PB * BI * CD * NA * K * AG * CA * MG * BA : 0-0,0006 * ZN * SB : 0-0,002 * AL : 0-6 * C * N : 0-0,06 * FE : REST * MN + SI : 0-2,22 * P + S : 0-0,33 | |
| Keywords | (english) | (german) |
| | CORROSION-RESISTING | KORROSIONSBEST |
| | FINE-GRAINED | FEINKÖRNIG |
| | HEAT-TREATMENT | WÄRMEBEHANDLUNG |
| | MARTENSITE | MARTENSIT |
| | PLASTIC | PLASTISCH |
| | PRODUCTION | HERSTELLUNG |
| | TOUGH | ZÄH |
| | USE | VERWENDUNG |
| | | |
| 137 | Deutsches Patent- und Markenamt DPMA | 12.11.2009 (16:41h) |
| Publication | CH519026 C | 30.03.1972 |
| Priority | SE3528 | 18.03.1968 |
| | | |

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| Application | CH040619688241/68 | |
| Applicant | UDDEHOLMS AB | |
| Inventor | LOEVLAND,PAUL/TENGE,PER | |
| Title | NICHTROSTENDER,SCHWEISSBARER,MARTENSITISCHER STAHL UND VERWENDUNG DESSELBEN | |
| Info | MN+NI:3-12 | |
| IPC | 40B00C22C03804000 | |
| Composition nr. | 1 | Composite component - |
| Composition | [weight-%]: C : 0-0,02 * CR : 11-15 * MO : 0-3,5 * MN : (0)-8 * NI : (0)-7 * FE : REST * B : 0-0,01 * NB : 0-0,5 * V : 0-0,5 * AL + TI : 0-1,11 * SI : 0-0,43 * N : 0-0,077 | |
| Keywords | (english) | (german) |
| | CORROSION-RESISTING | KORROSIONSBEST |
| | HEAT-TREATMENT | WÄRMEBEHANDLUNG |
| | MARTENSITE | MARTENSIT |
| | TURBINE | TURBINE |
| | USE | VERWENDUNG |
| | WELDABLE | SCHWEISSBAR |
| | | |
| 138 | Deutsches Patent- und Markenamt DPMA | 12.11.2009 (16:41h) |
| Publication | GB1221584 C | 03.02.1971 |
| Priority | SE3528 | 08.06.1967 |
| Application | GB2805196825537-68 | |
| Applicant | UDDEHOLMS AB | |
| Inventor | | |
| Title | STAINLESS WELDABLE MARTENSITIC STEEL | |
| Info | | |
| IPC | 40B00C22C039020W0 | |
| Composition nr. | 1 | Composite component - |
| Composition | [weight-%]: C : (0)-0,02 * CR : 11-15 * MO : 0,5-3,5 * MN : 0-8 * NI : 0,6-7 * N : 0-0,6 * SI : 0-3,2 * B : 0-0,01 * NB : 0-0,5 + V : 0-0,5 + AL : 0-0,5 + TI : 0-0,5 * FE : REST | |
| Keywords | (english) | (german) |
| | CORROSION-RESISTING | KORROSIONSBEST |
| | FINE-GRAINED | FEINKÖRNIG |
| | HEAT-TREATMENT | WÄRMEBEHANDLUNG |
| | MARTENSITE | MARTENSIT |
| | TENSILE-STRENGTH | ZUGFEST |
| | TOUGH | ZÄH |
| | USE | VERWENDUNG |
| | WELDABLE | SCHWEISSBAR |

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| | | |
| 139 | <i>Deutsches Patent- und Markenamt DPMA</i> | <i>12.11.2009 (16:41h)</i> |
| Publication | GB1217561 C | 31.12.1970 |
| Priority | US636666 | 08.05.1967 |
| Application | GB0705196821578/68 | |
| Applicant | AIR REDUCTION COMP. INC. | |
| Inventor | | |
| Title | IRON BASE ALLOYS AND METHOD OF MANUFACTURE THEREOF | |
| Info | | |
| IPC | C22C03914 | |
| Composition nr. | 1 | Composite component - |
| Composition | {weight-%}: CR : 4-40 * NI : 0-14 * W : 0-2 * AL : 0-8 * MO : 0-6 * MN : 0-3 * SI * C * N : 0-3 * PB + BI + CD + NA + K + AG + CA + MG + BA : 0-0,0006 * ZN + SB : 0-0,002 * TI + V + ZR + O + S + P : 0-0,33 * FE : REST | |
| Keywords | (english) | (german) |
| | AUSTENITE | AUSTENIT |
| | CORROSION-RESISTING | KORROSIONSBEST |
| | FERRITE | FERRIT |
| | HEAT-TREATMENT | WÄRMEBEHANDLUNG |
| | MARTENSITE | MARTENSIT |
| | PRODUCTION | HERSTELLUNG |
| | TOUGH | ZÄH |
| | WELDABLE | SCHWEISSBAR |
| | | |
| 140 | <i>Deutsches Patent- und Markenamt DPMA</i> | <i>12.11.2009 (16:41h)</i> |
| Publication | US3355280 C | 28.11.1967 |
| Priority | US467104 | 25.06.1965 |
| Application | US25061965467104 | |
| Applicant | INTERNATIONAL NICKEL CO.,INC. | |
| Inventor | TUFFNELL,GLENN/SCHALLER,FRANK/YEO,RALPH | |
| Title | HIGH STRENGTH,MARTENSITIC STAINLESS STEEL | |
| Info | CR*NI<21,5*C*N<0,13 | |
| IPC | 40B00C22C039020I0 | |
| Composition nr. | 1 | Composite component - |
| Composition | {weight-%}: C : (0)-0,12 * CR : 12-16,5 * MO : 0-1,5 * NI : 3-6,5 * N : 0-0,1 * MN : 0-1 * SI : 0-1 * AL : 0-0,15 * S + P + H + O : 0-0,33 * FE : REST | |
| Keywords | (english) | (german) |
| | CORROSION-RESISTING | KORROSIONSBEST |

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| | HARD | HART |
| | HEAT-TREATMENT | WÄRMEBEHANDLUNG |
| | MARTENSITE | MARTENSIT |
| | PLASTIC | PLASTISCH |
| | TENSILE-STRENGTH | ZUGFEST |
| | TOOL | WERKZEUG |
| | TOUGH | ZÄH |
| | USE | VERWENDUNG |
| | WELDABLE | SCHWEISSBAR |
| | | |
| 141 | <i>Deutsches Patent- und Markenamt DPMA</i> | <i>12.11.2009 (16:41h)</i> |
| Publication | US3152934 C | 13.10.1964 |
| Priority | US228148 | 03.10.1962 |
| Application | US03101962228148 | |
| Applicant | ALLEGHENY LUDLUM STEEL CORP. | |
| Inventor | LULA,REMUS/FERREE,JOSEPH JR./HEIGHTS,NATRONA/MCCUNN,THOMAS | |
| Title | PROCESS FOR TREATING AUSTENITE STAINLESS STEELS | |
| Info | | |
| IPC | 18C00C21D00000000 | |
| Composition nr. | 1 | Composite component - |
| Composition | [weight-%]: C : 0,01-0,4 * MN : 0,05-8 * SI : 0,05-2 * CR : 8-20 * NI : 1-13 * MO : 0-4 * N : 0-0,6 * AL + V + CU : 0-4 * FE : REST | |
| Keywords | (english) | (german) |
| | CORROSION-RESISTING | KORROSIONSBEST |
| | HARD | HART |
| | HEAT-TREATMENT | WÄRMEBEHANDLUNG |
| | MARTENSITE | MARTENSIT |
| | PRECIPITATION-HARDENING | AUSSCHIEDUNGSH |
| | PRODUCTION | HERSTELLUNG |
| | TENSILE-STRENGTH | ZUGFEST |
| | | |
| 142 | <i>Deutsches Patent- und Markenamt DPMA</i> | <i>12.11.2009 (16:41h)</i> |
| Publication | US3123468 C | 03.03.1964 |
| Priority | US39221 | 28.06.1960 |
| Application | US2806196039221 | |
| Applicant | ARMCO STEEL CORP. | |
| Inventor | TANCZYN,HARRY | |
| Title | ALLOY STEEL AND METHOD | |
| Info | (CR*MO)/NI:<4,5 | |

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| IPC | 40B00C22C039020Z0 | |
| Composition nr. | 1 | Composite component - |
| Composition | [weight-%]: C : 0,005-0,15 * CR : 5-15 * NI : 3,5-12 * SI : 0-2 * MO : 4-12 * N : (0)-0,15 * MN : 0-2,5 * P : (0)-0,05 * S : (0)-0,05 * NB + TA : 0-0,75 * AL : 0-0,4 * CU : 0-3 * V : 0-1 * TI + ZR : 0-0,5 * B : 0-0,01 * W : 0-7 * FE : REST | |
| Keywords | (english) | (german) |
| | CORROSION-RESISTING | KORROSIONSBEST |
| | HARD | HART |
| | HEAT-TREATMENT | WÄRMEBEHANDLUNG |
| | HIGH-TEMPER-STRENGTH | WARMFEST |
| | MACHINEABLE | ZERSPANBAR |
| | MARTENSITE | MARTENSIT |
| | PLASTIC | PLASTISCH |
| | PRECIPITATION-HARDENING | AUSSCHIEDUNGSH |
| | TENSILE-STRENGTH | ZUGFEST |
| | WEAR/TEAR | VERSCHLEISS |
| | WELDABLE | SCHWEISSBAR |
| | | |
| 143 | Deutsches Patent- und Markenamt DPMA | 12.11.2009 (16:41h) |
| Publication | DE1408928 A | 31.10.1968 |
| Priority | US840876 | 18.09.1959 |
| Application | DT08091960A35525 | |
| Applicant | ALLEGHENY LUDLUM STEEL CORP. | |
| Inventor | LULA,REMUS/FERREE,JOSEPH JR./MCCUNN,THOMAS | |
| Title | VERFAHREN ZUR VERBESSERUNG MECHANISCHER UND CHEMISCHER EIGENSCHAFTEN VON AUSTENITISCHEN,ROSTFREIEN STAEBLEN | |
| Info | | |
| IPC | 18C00C21D00701400 | |
| Composition nr. | 1 | Composite component - |
| Composition | [weight-%]: C : 0,01-0,4 * MN : 0,05-8 * SI : 0,05-2 * CR : 8-20 * NI : 1-13 * N : (0)-0,6 * AL + MO + V + CU : (0)-4 * FE : REST | |
| Keywords | (english) | (german) |
| | CORROSION-RESISTING | KORROSIONSBEST |
| | HEAT-TREATMENT | WÄRMEBEHANDLUNG |
| | MARTENSITE | MARTENSIT |
| | PRECIPITATION-HARDENING | AUSSCHIEDUNGSH |
| | | |
| 144 | Deutsches Patent- und Markenamt DPMA | 12.11.2009 (16:41h) |
| Publication | US2736649 C | 28.02.1956 |
| | | |

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|-----------------|--|-----------------------|
| Priority | US396338 | 04.12.1953 |
| Application | US04121953396338 | |
| Applicant | UNITED STATES STEEL CORP. | |
| Inventor | PHILLIPS,FREEMAN | |
| Title | FERRITIC STAINLESS STEEL | |
| Info | TI>10C | |
| IPC | 40B00C22C039026Z0 | |
| Composition nr. | 1 | Composite component - |
| Composition | [weight-%]: C : (0)-0,03 * CR : 9-11 * TI : (0)-1 * AL : 0,02-0,3 * MN : 0,1-1 * SI : 0,1-1 * MO + NI + B + V + W : 0-5,555 * FE : REST | |
| Keywords | (english) | (german) |
| | CLADDING-MATERIAL | PLATTIERW |
| | CORROSION-RESISTING | KORROSIONSBEST |
| | HEAT-TREATMENT | WÄRMEBEHANDLUNG |
| | MARTENSITE | MARTENSIT |
| | PLASTIC | PLASTISCH |
| | THERMAL | THERMISCH |
| | USE | VERWENDUNG |
| | | |
| 145 | Deutsches Patent- und Markenamt DPMA | 12.11.2009 (16:41h) |
| Publication | US2736649 C | 28.02.1956 |
| Priority | US396338 | 04.12.1953 |
| Application | US04121953396338 | |
| Applicant | UNITED STATES STEEL CORP. | |
| Inventor | PHILLIPS,FREEMAN | |
| Title | FERRITIC STAINLESS STEEL | |
| Info | TI>10C | |
| IPC | 40B00C22C039026Z0 | |
| Composition nr. | 2 | Composite component b |
| Composition | Composite material [%]: PLATTIERUNG * KERN Component a [weight-%]: GLAS : 100 Component b [weight-%]: C : (0)-0,03 * CR : 9-11 * TI : (0)-1 * AL : 0,02-0,3 * MN : 0,1-1 * SI : 0,1-1 * MO + NI + B + V + W : 0-5,555 * FE : REST | |
| Keywords | (english) | (german) |
| | CLADDING-MATERIAL | PLATTIERW |
| | CORROSION-RESISTING | KORROSIONSBEST |
| | HEAT-TREATMENT | WÄRMEBEHANDLUNG |
| | MARTENSITE | MARTENSIT |
| | PLASTIC | PLASTISCH |
| | | |

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|-----------------|---|-----------------------|
| | THERMAL | THERMISCH |
| | USE | VERWENDUNG |
| | | |
| 146 | Deutsches Patent- und Markenamt DPMA | 12.11.2009 (16:41h) |
| Publication | FR743179 C | 25.03.1933 |
| Priority | FR | 10.12.1931 |
| Application | FR10121931 | |
| Applicant | COMMENTRY,FOURCHAMBAULT & DECAZEVILLE | |
| Inventor | | |
| Title | PROCEDE DE DURCISSEMENT MARTENSITIQUE DES FERRONICKELS CHROMES | |
| Info | NI:>0,1 | |
| IPC | 40B00C22C039020G0 | |
| Composition nr. | 1 | Composite component - |
| Composition | [weight-%]: C : 0-1 * NI + CO : 6,5-30 * CR : 0,5-25 * MN : 0,1-4 * W : 0-10 * MO : 0-10 * V : 0-2 * TI : 0-0,5 * ZR : 0-2 * AL : 0-20 * B : 0-5 * BE : 0-5 * SI : 0-10 * CU : 0-20 * FE : REST | |
| Keywords | (english) | (german) |
| | CORROSION-RESISTING | KORROSIONSBEST |
| | HARD | HART |
| | HEAT-RESISTANT | HITZEBEST |
| | HEAT-TREATMENT | WÄRMEBEHANDLUNG |
| | MARTENSITE | MARTENSIT |
| | PLASTIC | PLASTISCH |
| | TENSILE-STRENGTH | ZUGFEST |